



Army Field Maintenance Forum

27 JUN 24

Purpose:

- Information**
- Guidance**
- Decision**

Agenda:

- Future Maintenance/Sustainment Formation Update
- Future Equipment Fielding Update
- Maintenance Cost Factors
- Army Equipment Service Optimization Program Update
- Publication Revision Update
- DoD Maintenance Symposium Announcement
- Q&A/Wrap Up

CONTROLLED BY: The Department of the Army G4 (DALO-ZA)
Controlled by: OFFICE SYMBOL
Classification Level:
Control:
POC: RANK Name



Future Maintenance/Sustainment Formation Update

[Redacted content]

CONTROLLED BY: The Department of the Army G4 (DALO-ZA)
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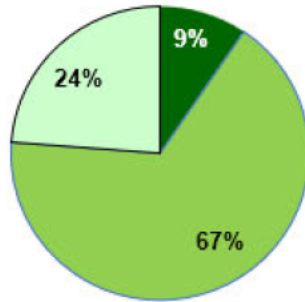


SRC 43- Maintenance



TAA 25-29

■ AC ■ ARNG □ USAR



Programmed Force - 8,754

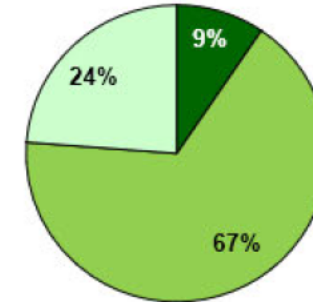
*Reflects SAMAS as of 8 May 24

SRC 43 Maintenance

COMPO	TAA 25-29		TAA 27-31		
	Programmed Force	Target	HQDA Recommend	Proposed Force	Delta +/-
AC	981	0	0	981	0
ARNG	5,729	0	0	5,729	0
USAR	2,044	0	0	2,044	0
Total	8,754	0	0	8,754	0

TAA 27-31

■ AC ■ ARNG □ USAR



Projected Force - 8,754

OVERVIEW / IMPACTS / ISSUES

OVERVIEW

- SRC 43 consists of Support Maintenance Companies (SMC) with Test, Measurement and Diagnostic Equipment (TMDE) Support Teams in the RA. Only 4 of 38 SMCs in the ARNG currently have TMDE. Will convert 4 SMCs to Division Support Maintenance Company (DSMC) from FY25 through FY26. USAR SMCs do not have TMDE. 9 Maintenance Surge Teams (MST), 6 ABCT and 3 SBCT in the RA. One Air Traffic Services (ATS) Support Maintenance Detachment (SMD) in the RA only.

IMPACTS

- Maintenance Surge Team (MST) FDU approved by VCSA NOV 2020; a total 9 programmed MSTs between FY22-26 (5 have activated consisted of 4 ABCT and 1 SBCT MST).

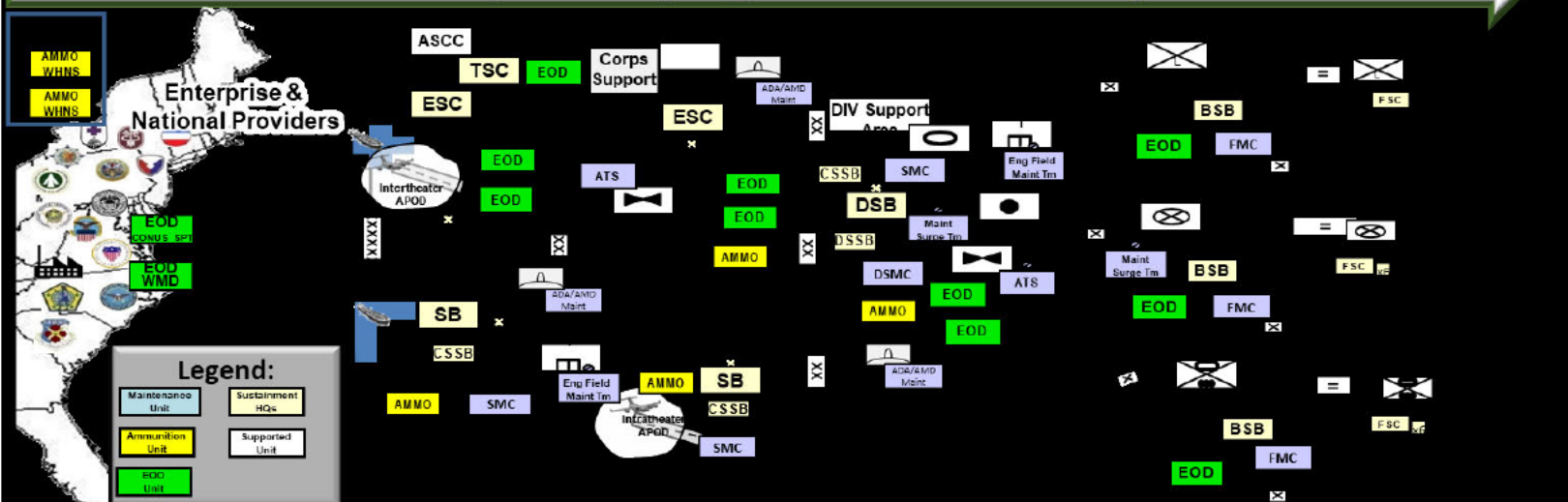
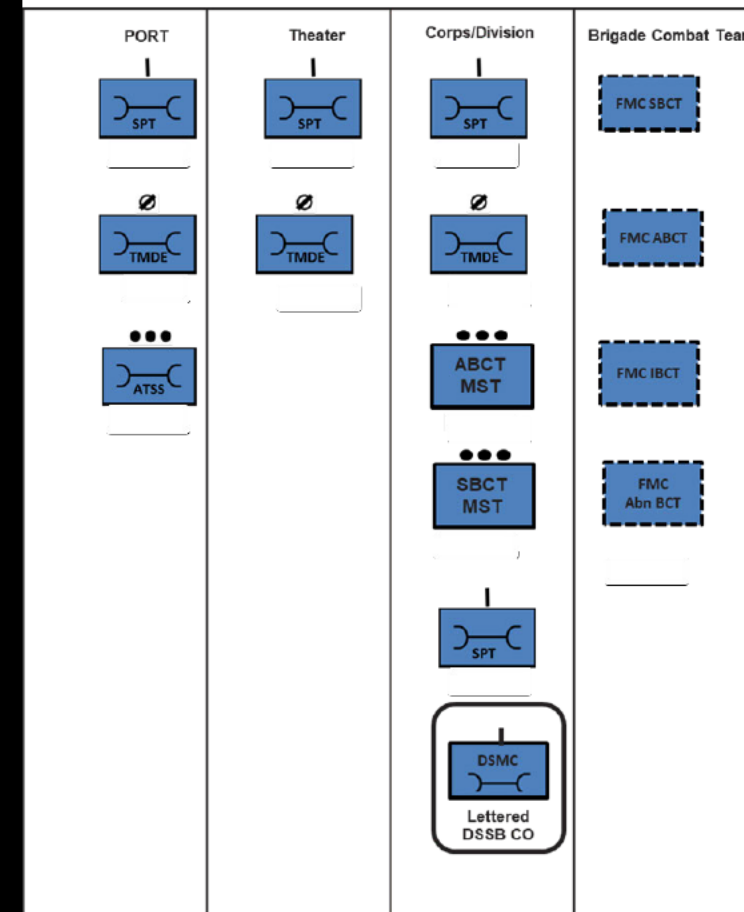
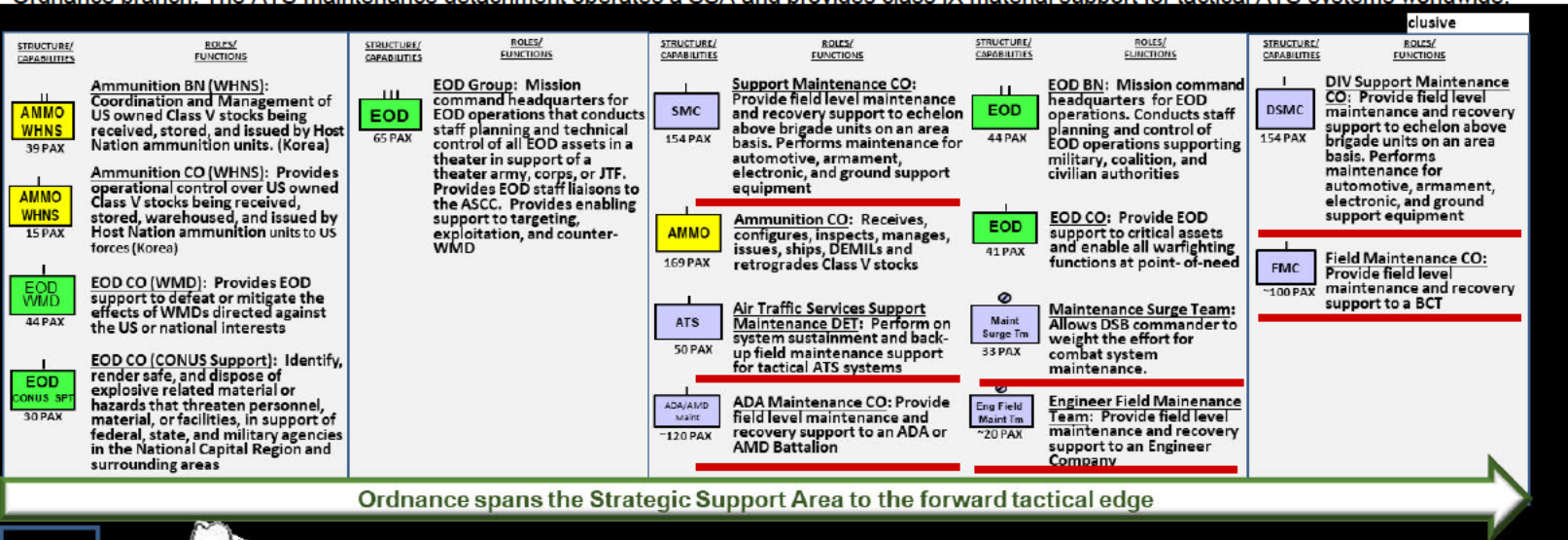
ISSUES



Echeloned Ordnance Capabilities



The support maintenance company is organic to a DSSB and will normally be attached to a CSSB but may be attached to any logistics battalion. It may require surge capabilities during large-scale combat operations through enables such as the Maintenance Surge Team. Both the support maintenance company and the Maintenance Surge Team are the only echelon above brigade unit performing field-level maintenance, including all low density, and limited recovery support to units on an area basis. They provides field maintenance support to units that do not have organic maintenance capability in EAB. The ATS Maintenance Detachment is capable of deploying maintenance support teams within 96 hours to provide back-up field level and below depot sustainment level support on-site for all Army components, worldwide. This singular unit is organized under U. S. Army Forces Command and aligned under the Ordnance branch. The ATS maintenance detachment operates a SSA and provides class IX material support for tactical ATS systems worldwide.





SRC 43 MAINTENANCE: EXECUTIVE SUMMARY OF CHANGE



TAA 25-29 reorganizes the Air Traffic Service Support Maintenance Detachment from SRC 43713K000 to SRC 43713K100 in FY25 with no personnel changes. It also converts one ABCT Maintenance Surge Team to a SBCT Maintenance Surge Team to support the Korea rotational SBCT. Additionally, TAA 25-29 has HQDA returning the SBCT Field Maintenance Team FDU to CAC without action.

Current

Capability	RA	NG	AR	Total
Support Maintenance Company w/TMD	4	4	0	8
Support Maintenance Company	0	34	14	48
Air Traffic Sustainment Support Maintenance Detachment	1	0	0	1
Stryker Maintenance Surge Team	3	0	0	3
Abrams Maintenance Surge Team	6	0	0	6

TAA 25-29 Endstate

Capability	RA	NG	AR	Total
Support Maintenance Company w/TMD	4	4	0	8
Support Maintenance Company	0	34	14	48
Air Traffic Sustainment Support Maintenance Detachment	1	0	0	1
Stryker Maintenance Surge Team	3	0	0	3
Abrams Maintenance Surge Team	6	0	0	6

SUPPORT MAINTENANCE CO

COMPO	CURRENT	FY25	FY26	FY27	FY28	FY29
ACTIVE	4	4	4	4	4	4
ARNG	41	39	38	38	38	38
USAR	14	14	14	14	14	14
TOTAL	59	57	56	56	56	56

SUPPORT MAINTENANCE COMPANYW/TMD

COMPO	CURRENT	FY25	FY26	FY27	FY28	FY29
ACTIVE	4	4	4	4	4	4
ARNG	5	4	4	4	4	4
USAR	0	0	0	0	0	0
TOTAL	9	8	8	8	8	8

AIR TRAFFIC SUSTAINMENT SUPPORT MAINTENANCE DETACHMENT

COMPO	CURRENT	FY25	FY26	FY27	FY28	FY29
ACTIVE	1	1	1	1	1	1

STRYKER MAINTENANCE SURGE TEAM

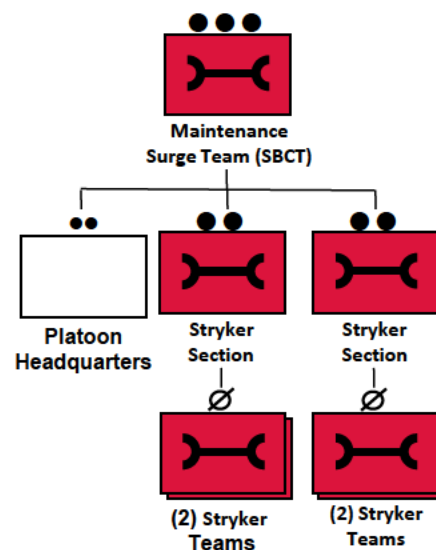
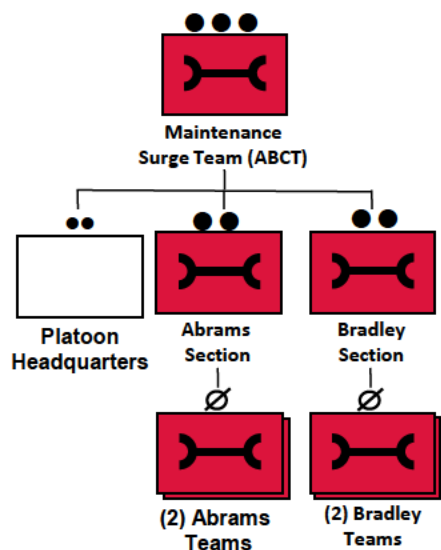
COMPO	CURRENT	FY25	FY26	FY27	FY28	FY29
ACTIVE	2	2	3	3	3	3

ABRAMS MAINTENANCE SURGE TEAM

COMPO	CURRENT	FY25	FY26	FY27	FY28	FY29
ACTIVE	3	4	5	6	6	6



ORDNANCE ECHELONS ABOVE BRIGADE TASK ORGANIZATION



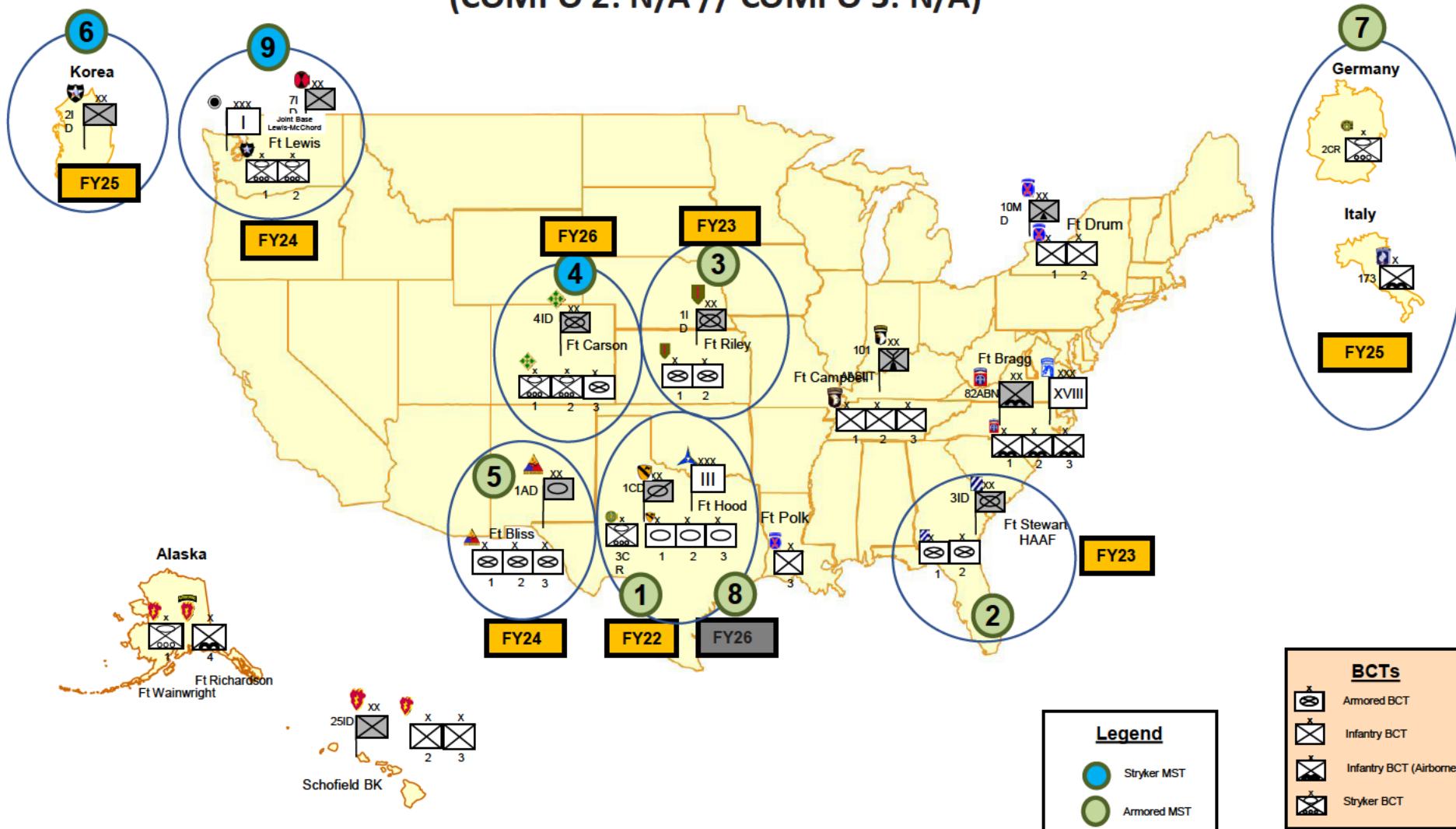
Maintenance Surge Team (ABCT & SBCT) – To provide Field Level Maintenance capability and capacity which will surge modularly configured maintenance teams towards critical points of need within an Armored or Stryker BCT's Area of Operations IOT support their efforts in the generation of combat power during decisive action.



Implementation Strategy









COMPO 1: 9 MSTs (7 ABCT / 3 SBCT)
(COMPO 2: N/A // COMPO 3: N/A)





MAINTENANCE SUPPORT CONVERSIONS









Current	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29
<p>ATS Support Maint Company</p>   <p>ATSS FY24 AUTH: 49</p> <p>597TH MAINTENANCE COMPANY ATS SUPPORT MAINT DETACHMENT FORT NOVOSSEL, AL, USA</p>	<p>TAA 25-29 reorganizes the 597 ATS Support Maintenance's three existing Special Repair Activities into six Mobile Maintenance Contact Teams (MMCT) while increasing the SSA capability. This reorganization effectively enables the ATSS Maintenance Detachment to support global mission requirements with increased efficiency and decreased risk. It enables the 597 ATS Support Maintenance Detachment to establish a larger ATSS theater footprint during LCSO, thereby enabling the ATS SMD to deploy MMCTs within 96 hours to provide on-site backup support for field level and below depot sustainment for all Army components worldwide.</p>					
    <p>SBCT MSTFY24 AUTH: 33</p> <p>2nd ID/ Korea OCONUS</p>	<p>TAA 25-29 transitions the structure from an Armored Brigade Combat Team (ABCT) 43360K to a Stryker Brigade Combat Team (SBCT) 43370K to support the rotation policy change approved by the Under Secretary of Defense on January 22nd, 2022, to transition brigade combat team formations in Korea from ABCT to rotational SBCT.</p>					



MAINTENANCE SUPPORT ACTIVATION



Current	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29
    <p>SBCT MST FY24 AUTH: 33 2nd ID/ Korea Korea</p>	<p>TAA 25-29 transitions the structure from an Armored Brigade Combat Team (ABCT) 43360K to a Stryker Brigade Combat Team (SBCT) 43370K to support the rotation policy change approved by the Under Secretary of Defense on January 22nd, 2022, to transition brigade combat team formations in Korea from ABCT to rotational SBCT.</p>					
  <p>Ft Carson SBCT MST FY24 AUTH: 33</p>	<p>TAA 25-29 activates the Maintenance SURGE Team (WB9WAA) at Fort Carson, CO with an EDATE of October 16, 2025. TAA 25-29 also converts the ABCT Maintenance Surge Team (MST) from an Armored Brigade Combat Team (43360K) to a Stryker Brigade Combat Team (43370K) to support the Under Secretary of Defense's directive to transition Brigade Combat Team formations rotating in Korea from Armored Brigade Combat Teams to rotating Stryker Brigade Combat Teams beginning on January 22, 2022.</p>					
<p>Division Sustainment Brigade/Division Sustainment Support Battalion (DSB/DSSB) FDU implementation continues and four National Guard DSSBs (WPWSAA, WQFDAA, WP6EAA, and WX6SAA) <i>add Test Measurement and Diagnostic Equipment capabilities to their sustainment maintenance companies.</i></p>						



SRC 43 MAINTENANCE: TAA 25-29 FORCE STRUCTURE ACTION



- TAA 25-29 reorganizes the 597 ATS Support Maintenance's three existing Special Repair Activities into six Mobile Maintenance Contact Teams (MMCT) while increasing the SSA capability. This reorganization effectively enables the ATSS Maintenance Detachment to support global mission requirements with increased efficiency and decreased risk. It enables the 597 ATS Support Maintenance Detachment to establish a larger ATSS theater footprint during LCSO, thereby enabling the ATS SMD to deploy MMCTs within 96 hours to provide on-site backup support for field level and below depot sustainment for all Army components worldwide.
- Additionally, TAA 25-29 transitions the structure from an Armored Brigade Combat Team (ABCT) 43360K to a Stryker Brigade Combat Team (SBCT) 43370K to support the rotation policy change approved by the Under Secretary of Defense on January 22nd, 2022, to transition brigade combat team formations in Korea from ABCT to rotational SBCT.
- TAA 25-29 activates the Maintenance SURGE Team (WB9WAA) at Fort Carson, CO with an EDATE of October 16, 2025. TAA 25-29 also converts the ABCT Maintenance Surge Team (MST) from an Armored Brigade Combat Team (43360K) to a Stryker Brigade Combat Team (43370K) to support the Under Secretary of Defense's directive to transition Brigade Combat Team formations rotating in Korea from Armored Brigade Combat Teams to rotating Stryker Brigade Combat Teams beginning on January 22, 2022.

Conversion	COMPO	EDATE	SRC	UIC	UNIT	LOCATION	CMD
	ACTIVE	20241016	43713K100	WJEVAA	597 ATS Support Maintenance	Fort Novosel, AL	FC
	ACTIVE	20251016	43370K100	WB9HAA	502 Maint Surge Team (Stryker)	Camp Casey, Republic of Korea	P1
Activation	COMPO	EDATE	SRC	UIC	UNIT	LOCATION	CMD
	ACTIVE	20251016	43370K000100	WB9WAA	12 Maint Surge Team (Stryker)	Fort Carson, CO	FC
	ACTIVE	20251016	43370K000100	WB9HAA	502 Maint Surge Team (Stryker)	Camp Casey, Republic of Korea	P1
Inactivation							

Division Sustainment Brigade/Division Sustainment Support Battalion (DSB/DSSB) FDU implementation continues and four National Guard DSSBs (WPWSAA, WQFDAA, WP6EAA, and WX6SAA) **add Test Measurement and Diagnostic Equipment capabilities to their sustainment maintenance companies.**



SRC 43– Maintenance Summary



SEQ	SRC	UNIT DESCRIPTION		Inventory				Rotational	
				AC	ARNG	USAR	TOTAL		
1	G	43027KA00	MAINTENANCE SURGE TEAM (ABCT)	CURRENT	9	0	0	9	9
		Strength	O/W/E//Total	1 1 1	3	RECOMMENDED	9	0	0
2	R	43027KB00	MAINT SEC ABRAMS	CURRENT	6	0	0	6	6
		Strength	O/W/E//Total	0 0 15	15	RECOMMENDED	6	0	0
3	R	43027KC00	MAINT SEC BRADLEY	CURRENT	6	0	0	6	6
		Strength	O/W/E//Total	0 0 15	15	RECOMMENDED	6	0	0
4	G	43057KC00	MAINT SEC STRYKER	CURRENT	6	0	0	6	6
		Strength	O/W/E//Total	0 0 15	15	RECOMMENDED	6	0	0
5	R	43433K000	SUPPORT MAINTENANCE COMPANY	CURRENT	4	39	14	57	57
		Strength	O/W/E//Total	6 5 135	146	RECOMMENDED	4	39	14
6	R	43547KA00	AREA TMDE SPT TM	CURRENT	4	5	0	9	9
		Strength	O/W/E//Total	0 0 7	7	RECOMMENDED	4	5	0
7	G	43713K100	AIR TRAFFIC SERVICES SPT MAINT DET	CURRENT	1	0	0	1	1
		Strength	O/W/E//Total	0 2 48	50	RECOMMENDED	1	0	0

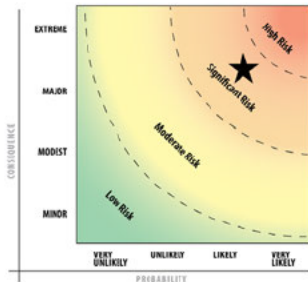


1-n List (Reduction)



SRC2	SRC2 OML	SRC	TITLE	STR	SRC2 OML Running Total	FY29 UIC	FY29 AUTH	OI NOTES	Percentage of SRC
43	1	43027KA00	MAINT SURGE TM (MST) SBCT	33	33	WB9HAA	33	USARPAC - FY25 Conversion to MST-S	3.4%
43	3	43057KC00	MAINT SURGE TM (MST) SBCT	33	66	WB9WAA	33	FT CARSON-FY26 Activation	6.7%
43	6	43027KA00	MAINT SURGE TM (MST) SBCT	33	99	WFCKAA	33	JBLM - FY24 Activation	10.1%
43	2	43027KA00	MAINT SURGE TM (MST) ABCT	33	132	WHDFAA	33	FT HOOD - FY26	13.5%
43	4	43027KA00	MAINT SURGE TM (MST) ABCT	33	165	WHB1AA	33	USAREUR-AF - FY25 Activation	16.8%
43	7	43027KA00	MAINT SURGE TM (MST) ABCT	33	198	WFCJAA	33	FT STEWART - FY23 Activation	20.2%
43	8	43027KB00	MAINT SURGE TM (MST) ABCT	33	231	WFCKAA	33	FT RILEY - FY23 Activation	23.6%
43	5	43027KA00	MAINT SURGE TM (MST) ABCT	33	264	WB55AA	33	FT BLISS - FY24 Activation	26.9%
43	9	43027KA00	MAINT SURGE TM (MST) ABCT	33	297	WFCKAA	33	FT HOOD-FY22	30.3%
43	10	43433K000	SPT MAINT CO (without TMDE)	146	443	WEXQAA	146	JBLM	45.2%
43	11	43433K000	SPT MAINT CO (without TMDE)	168	611	WB4JAA	169	KOREA	62.3%
43	14	43547KA00	AREA TMDE SPT TM	7	618	WEXQ02	7	JBLM	63.1%
43	12	43433K000	SPT MAINT CO (without TMDE)	146	764	WEV8AA	146	AK	78.0%
43	13	43433K000	SPT MAINT CO (without TMDE)	146	910	WET9AA	146	GERMANY	92.9%
43	15	43547KA00	AREA TMDE SPT TM	7	917	WEV802	7	AK	93.6%
43	16	43547KA00	AREA TMDE SPT TM	7	924	WB4J03	7	KOREA	94.3%
43	17	43547KA00	AREA TMDE SPT TM	7	931	WB4J03	7	GERMANY	95.0%
43	18	43713K000	ATS SPT MAINT	49	980	WJEVAA	49	FT RUCKER	100.0%

CJCSM 3105.01A
12 October 2021



The panel identified significant risks to mission and force due to potential reductions to the SRC 43 structure. Shifting SMC support to local DOL/LRC would incur costs and not meet operational requirements. The Stryker MST, Abrams MST, and Air Traffic Services Support Maintenance Detachment meet wartime demand, but the MSTs are not in war-plans. The SMC and TMDE Teams pose a high risk as they don't meet wartime demands. Per the panel recommendation the Compo 1-N list is updated with a target for a 10% reduction, replacing an Abrams MST with a Stryker MST due to LSCO requirements. Now, all units above the cut line are Stryker MSTs.



SRC 43_Maintenance Risk Assessment U.S. ARMY

CJCSM 3105.01A

12 October 2021

Risk Levels

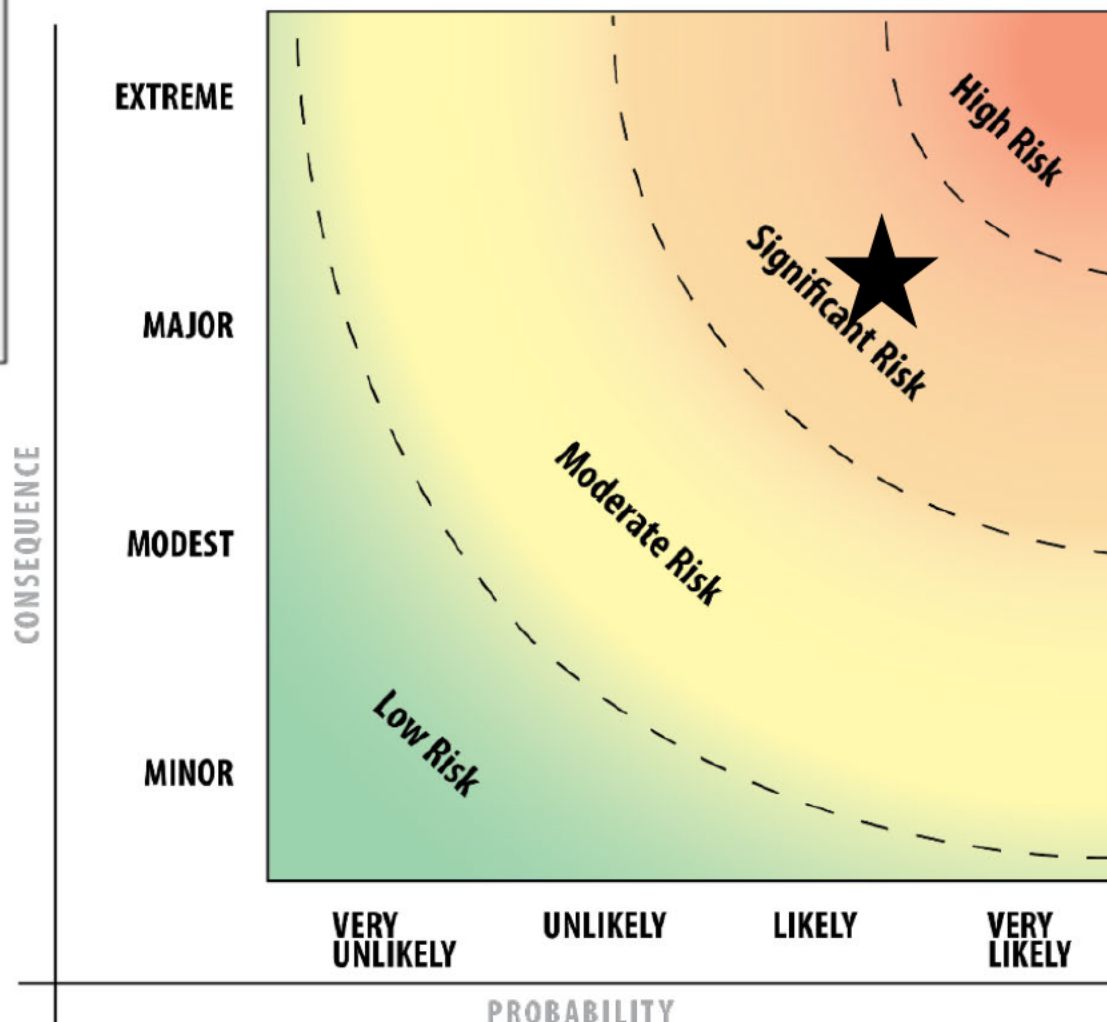
HIGH RISK:
Maximum level of expected impact on the thing of value.

SIGNIFICANT RISK:
Severe level of expected impact on the thing of value.

MODERATE RISK:
Medium level of expected impact on the thing of value.

LOW RISK:
Little or no expected impact on the thing of value.

The panel has identified high risks to both mission and force in the event of any reductions to the already strained SRC 43 structure. The potential reduction in MST force structure could limit the Army's ability to compete in LSCO and reach a multi-Domain ready force. Additionally, any shift in SMC support to local DOL/LRC would incur financial costs and not mitigate requirements for deployed operations.





HQDA G8 Future Equipment Fielding Update



FORCE DEVELOPMENT
LOGISTICS
HARDWARE DIVISION OF CHOICE



CONTROLLED BY: The Department of the Army G4 (DALO-ZA)
Controlled by: OFFICE SYMBOL
Classification Level: 14
Control:
POC: RANK Name



CUI



SYSTEM NAME



U.S. ARMY

REQUIREMENTS/CAPABILITY TO THE FORCE

What is the need of this piece of equipment



=



Approved Requirements Documents: What document authenticates the need for this piece of equipment.



Last Quarter Events:

- Design finalized
- Production Representative System completed
- Provisioning Start of Work Meeting (SOWM)

Next Quarter Events:

- Provisioning
- Test and Evaluation

CAPABILITY DESCRIPTION

How this piece



PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY24	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE							
PROC							
OTHER							
TOTAL \$							
Quantity							

Congressional Marks:

FY24 Congressional Adjustment: None

PDM:

Other Funding Issues: PB24 does not buy required 36 to support MSTs.

Programmatic Overview : AAO: xxx FY23 O/H: x (xx%) TRL: 9

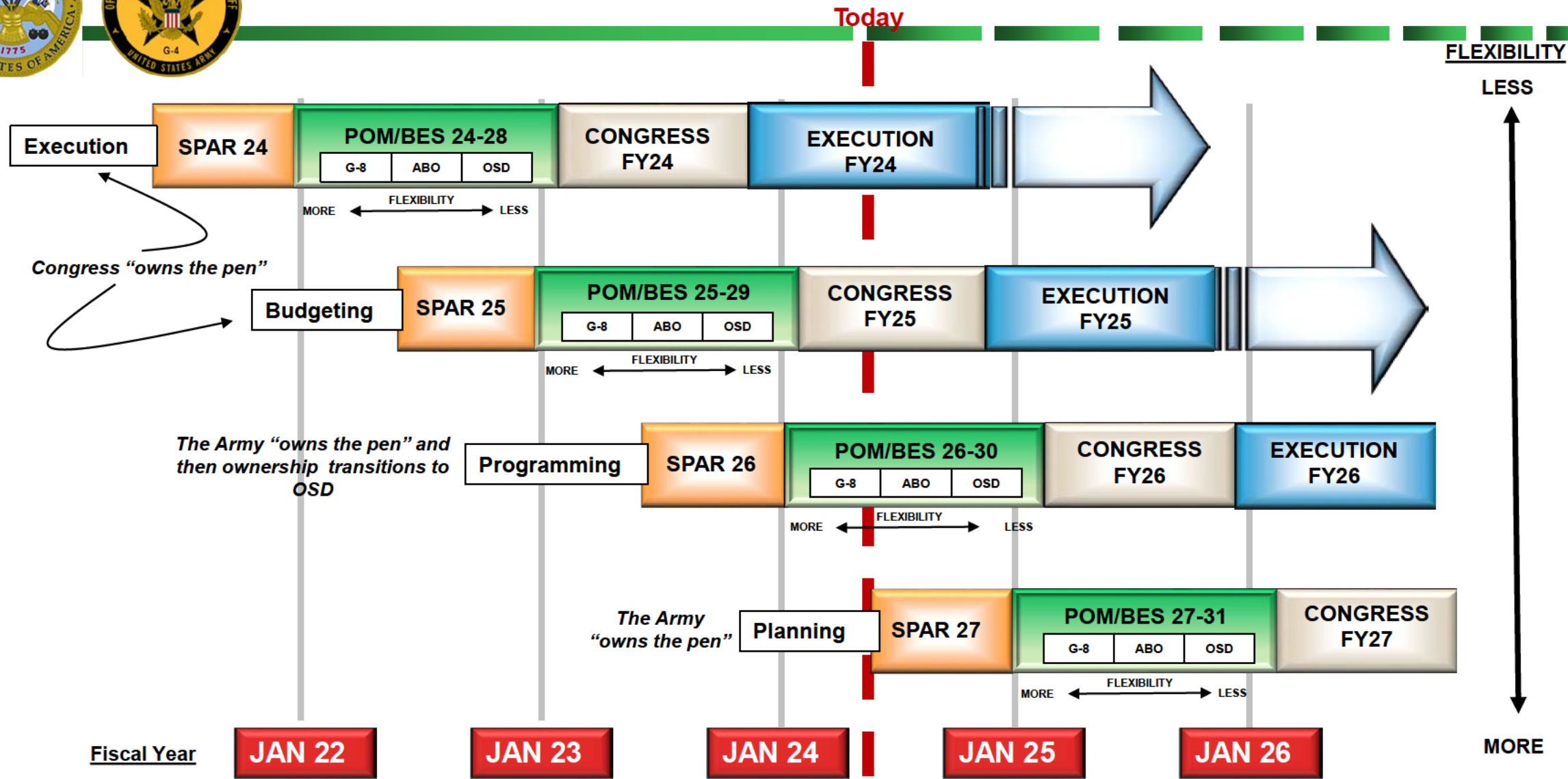
Acquisition Pathway & Acquisition Category:	Acquisition Category III
Milestone Decision Authority:	PEO Combat Support & Combat Service Support (PEO CS&CSS)
Program Office:	Product Manager Engineering Maintenance Support Equipment (PdM EMSE)
Phase:	Sustainment
Prime contractor:	(Organic) Rock Island Arsenal – Joint Manufacturing & Technology Center (RIA-JMTC)
Average Proc Unit Cost (\$M):	\$1M
Proponent:	Sustainment – Capability Development Integration Directorate (S-CDID)
Contract Type:	MIPR
COTS Options:	N/A
# of Program Re-baselines	None
Current Production Capacity	N/A
Obligations/Disbursements (as of):	(RDTE) FY23: XX% FY24: XX% (PROC): FY24: XX%
US States/Interest:	Rock Island Arsenal, Illinois

CUI LIN:





Integrated PPBE Timeline FY24



Congress "owns the pen"

The Army "owns the pen" and then ownership transitions to OSD

The Army "owns the pen"

We simultaneously work all four phases of PPBE

PPBE = Planning, Programming, Budgeting, and Execution. (AR 1-1)



CUI



SYSTEM NAME



U.S. ARMY

REQUIREMENTS/CAPABILITY TO THE FORCE

What is the need of this piece of equipment



=



Approved Requirements Documents: What document authenticates the need for this piece of equipment.



Last Quarter Events:

- Design finalized
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Next Quarter Events:

- Provisioning
- Test and Evaluation

CAPABILITY DESCRIPTION

How this piece



PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY24	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE							
PROC							
OTHER							
TOTAL \$							
Quantity							

Congressional Marks:

FY24 Congressional Adjustment: None

PDM:

Other Funding Issues: PB24 does not buy required 36 to support MSTs.

Programmatic Overview : AAO: xxx FY23 O/H: x (xx%) TRL: 9

Acquisition Pathway & Acquisition Category:	Acquisition Category III
Milestone Decision Authority:	PEO Combat Support & Combat Service Support (PEO CS&CSS)
Program Office:	Product Manager Engineering Maintenance Support Equipment (PdM EMSE)
Phase:	Sustainment
Prime contractor:	(Organic) Rock Island Arsenal – Joint Manufacturing & Technology Center (RIA-JMTC)
Average Proc Unit Cost (\$M):	\$1M
Proponent:	Sustainment – Capability Development Integration Directorate (S-CDID)
Contract Type:	MIPR
COTS Options:	N/A
# of Program Re-baselines	None
Current Production Capacity	N/A
Obligations/Disbursements (as of):	(RDTE) FY23: XX% FY24: XX% (PROC): FY24: XX%
US States/Interest:	Rock Island Arsenal, Illinois

CUI LIN:





Forward Repair System (FRS)



CUI

REQUIREMENTS/CAPABILITY TO THE FORCE

The FRS is a maintenance multiplier and the work horse for maintainers to support as far forward as possible. No other maintenance platforms possess the enhanced mobility, lift, diagnostics, or a tool configuration to fulfill maintenance requirements at the point of need. The FRS provides commanders real-time, on-demand capabilities for repairing battle damaged equipment at the Point of Need. Maintenance Surge Team activations in FY24&25 will not have the required 18 each FRS.

Approved Requirements Documents: Capability Production Document (CPD) (18FEB2000)

Last Quarter Events:

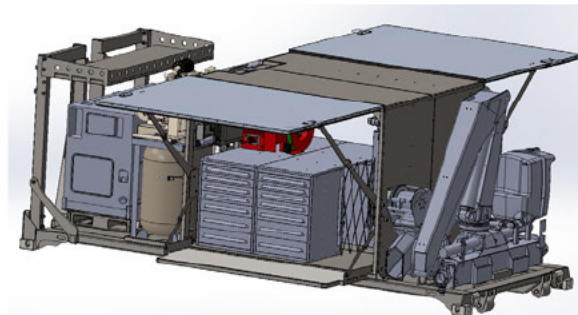
- Design finalized
- Production Representative System completed
- Provisioning Start of Work Meeting (SOWM)

Next Quarter Events:

- Provisioning
- Test and Evaluation

CAPABILITY DESCRIPTION

Provides mobile maintenance/repair capabilities at the point of need to support MDO/LSCO. The only maintenance capability in the inventory designed to lift and maneuver loads up to 5 tons. FRS complete tool package reduces the redundancy needed to support fielded heavy/combat systems. FRS increases the unit's ability to support and repair damaged heavy/combat systems in the field, and significantly reduces the need for retrograding heavy/combat equipment. FRS is an enabler allowing the commander to conduct split base operation.



Programmatic Overview : AAO: 2197 FY23 O/H: 98 (18%) TRL: 9

Acquisition Pathway & Acquisition Category:	Acquisition Category III
Milestone Decision Authority:	PEO Combat Support & Combat Service Support (PEO CS&CSS)
Program Office:	Product Manager Engineering Maintenance Support Equipment (PdM EMSE)
Phase:	Sustainment
Prime contractor:	(Organic) Rock Island Arsenal – Joint Manufacturing & Technology Center (RIA-JMTC)
Average Proc Unit Cost (\$M):	\$550K
Proponent:	Sustainment – Capability Development Integration Directorate (S-CDID)
Contract Type:	MIPR
COTS Options:	N/A
# of Program Re-baselines	None
Current Production Capacity	N/A
Obligations/Disbursements (as of):	(RDTE) FY23: 83.4%/38%; FY24: 13.4%/0%
26FEB24	(PROC): FY24: 0%/0%
US States/Interest:	Rock Island Arsenal, Illinois

PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY24	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE							
PROC	\$8,140	\$12,573					\$12,573
OTHER							
TOTAL \$	\$8,140	\$12,573					\$12,573
Quantity	14	21					21

Congressional Marks:

FY24 Congressional Adjustment: None

PDM:

Other Funding Issues: PB24 does not buy required 36 to support MSTs.



Next Generation Shop Equipment Contact Maintenance (NG SECM)



CUI

REQUIREMENTS/CAPABILITY TO THE FORCE

The NG SECM is critical in scheduled, un-scheduled and Battle Damage Assessment and Repair (BDAR) situations. NG SECM provides essential tools hand, air and electric power maintenance capability necessary to rapidly repair equipment and return it to full mission capable (FMC) use. It is a mobile tool system capable of deploying to and operating in austere areas worldwide.

Approved Requirements Documents: Capability Production Document (CPD) (18DEC2011)

Last Quarter Events:

- TACOM Safety certification approved (JAN 24)
- As of 05 Mar 24, Full Material Release (FMR) packet routing at PEO staff level
- Production, as of 29 Feb 24 DD250 90 NG SECM

Next Quarter Events:

- Integrated Logistics Support Center (ILSC) Supportability Certification
- Approved FMR
- Production

CAPABILITY DESCRIPTION

The NG SECM is a first responder to battle/Improvised Explosive Device damaged tracked, wheeled, and ground support equipment to provide immediate field level maintenance as far forward as possible. The NG SECM contains required common tools and compressed air to enable maintainers the ability to provide on-site maintenance forward, freeing up recovery assets.



Programmatic Overview : AAO: 3797 FY23 O/H: 0 (0%) TRL: 9	
Acquisition Pathway & Acquisition Category:	Major Capability Acquisition (MCA) - Acquisition Category III
Milestone Decision Authority:	PEO Combat Support & Combat Service Support (PEO CS&CSS)
Program Office:	Product Manager Engineering Maintenance Support Equipment (PdM EMSE)
Phase:	Production & Deployment
Prime contractor:	(Public Private Partnership (P3)) Rock Island Arsenal Joint Manufacturing and Technology Center (RIA – JMTC) & AM General
Average Proc Unit Cost (\$M):	\$208K
Proponent:	Sustainment Capabilities Development & Integration Directorate (S-CDID)
Contract Type:	Firm Fixed Price (FFP) (AM General) & MIPR (RIA – JMTC)
COTS Options: N/A	
# of Program Re-baselines	One (Cost – Acquisition Decision Memorandum: 19JAN2021)
Current Production Capacity	Minimum Sustainment Rate (MSR): 30 (FY24) // Max: 30 (FY24)
Obligations/Disbursements (as of): 26FEB24	(PROC) FY22: 99.73% // 52.45%; FY23: 87.24% // 43.62%
US States/Interest: Rock Island Arsenal, Illinois	

PROGRAMMING BUDGET

Budget Position: FY25 LOCK

APPN (\$K)	FY24	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE							\$0
PROC	\$0	\$0	\$8,516	\$8,516	\$8,516	\$8,517	\$34,065
OTHER							\$0
TOTAL \$	\$0						\$0
Quantity	0	0	39	39	39	39	156

*Note: FY24 data does not reflect congressional adjustments

Congressional Marks:

FY24 Congressional Adjustment: \$137.287M. [Adds \$120M for Program increase: Next generation HMMWV shop equipment contact maintenance vehicle].

PDM:

Other Funding Issues:



Metal Working and Machining Shop Set (MWMSS)



U.S. ARMY

CUI

REQUIREMENTS/CAPABILITY TO THE FORCE

The MWMSS provides a far forward capability to fabricate and develop repair parts enabling Battle Damage Assessment and Repair (BDAR). The MWMSS provides commanders real-time, on-demand fabrication and repairs to equipment, components, and parts by fabricating, cutting, welding, and machining.

Requirements Documents: Capability Production Document (CPD) (18DEC2011)

Last Quarter Events:

- Production & Fielding
- Fielding polymer printing capabilities

Next Quarter Events:

- Production & Fielding
- Results of Additive Manufacturing Limited User Experiment (Metal)

CAPABILITY DESCRIPTION

The MWMSS directly supports Soldier Lethality, NGCV and LRPF, and addresses GAPs 10 and 17 enabling rapid repair at the point-of-need through fabrication using additive (3D printers) and subtractive manufacturing capabilities. MWMSS provides 75% of Brigade Combat Team (BCT) metal working fabrication capability to support ALL combat platforms and 100% of Additive Manufacturing (AM) capability in BCT formations



Programmatic Overview : AAO/APO: 446 (Type I – 282, Type II – 164)
FY23 O/H: Type 1 – 149 Type 2 - 118 TRL: 9

Acquisition Pathway & Acquisition Category:	Major Capability Acquisition (MCA) - Acquisition Category III
Milestone Decision Authority:	PEO Combat Support & Combat Service Support (PEO CS&CSS)
Program Office:	Product Manager Engineering Maintenance Support Equipment (PdM EMSE)
Phase:	Production & Deployment
Prime contractor:	(Organic) Rock Island Arsenal Joint Manufacturing and Technology Center (RIA – JMTC)
Average Proc Unit Cost (\$M):	Type I \$724K and Type II \$641K
Proponent:	Sustainment Capabilities Development & Integration Directorate (S-CDID)
Contract Type:	Military Interdepartmental Purchase Request (MIPR)
COTS Options:	N/A
# of Program Re-baselines	One (Cost – Acquisition Decision Memorandum: 19JAN2021)
Current Production Capacity	Minimum Sustainment Rate (MSR): 12 (FY24) // Max: 96 (FY24)
Obligations/Disbursements (as of): 5Mar24	(PROC) FY22: 69.9%/29.3%; FY24: 0%/0% (New Start) (RDTE) FY24: 0%/0% (MODS) FY22: 82.7%/55.4%; FY23: 26.7%/0.7%
US States/Interest:	Rock Island Arsenal, Illinois

PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY24	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE	\$431	\$0	\$0	\$500	\$300	\$0	\$800
PROC	\$7,128	\$4,925	\$6,460	\$26,583	\$27,008	\$27,077	\$92,053
OTHER							\$0
TOTAL \$	\$7,559	\$4,925	\$6,460	\$27,083	\$27,308	\$27,077	\$92,853
Quantity	10	8	9	38	39	39	133

Congressional Marks:

FY24 Congressional Adjustment: None

PDM:

Other Funding Issues:



Armament Repair Shop Set (ARSS)



CUI

REQUIREMENTS/CAPABILITY TO THE FORCE

ARSS Version II is the BCT Commander's ability to conduct weapon system maintenance on every weapon from Small Arms and Mortars to Abrams Tank, all in a single containerized shop set. Improves mobility (Gap #10) by reducing transportation assets from up to 4 (unit dependent) MTV-mounted enduring shop set LINs to 1 PLS transported ISO container LIN. New digital technology increases OR rates by greatly reducing time to diagnose faults. Depending on unit type, One (1) ARSS eliminates 2-4 MTVs, generators and S280 shelters/shop vans

Approved Requirements Documents:

Capability Production Document (CPD) (16APR2013)

Last Quarter Events:

- Production & Fielding

Next Quarter Events:

- Production & Fielding

CAPABILITY DESCRIPTION

ARSS enables sustainment support for Soldier Lethality and Precision Fires. Provides the capability to All Army Formations to repair weapons from small arms up to 155MM. The ARSS updates and consolidates the outdated armament Sets, Kits and Outfits (SKO) and takes advantage of technological advancements and incorporates tool warranties. This consolidation results in a reduction of four M1083 vehicles, four generators, four shelters, reduction of 43% of tools, and 51% of duplicated tools.



Programmatic Overview : AAO/APO: 867 (AAO) FY23 O/H: 0 (0%) TRL: 9

Acquisition Pathway & Acquisition Category:	Major Capability Acquisition (MCA) - Acquisition Category III
Milestone Decision Authority:	PEO Combat Support & Combat Service Support (PEO CS&CSS)
Program Office:	Product Manager Engineering Maintenance Support Equipment (PdM EMSE)
Phase:	Production & Deployment
Prime contractor:	(Organic) Tobyhanna Army Depot
Average Proc Unit Cost (\$M):	\$475K
Proponent:	Sustainment Capabilities Development & Integration Directorate (S-CDID)
Contract Type:	Military Interdepartmental Purchase Request (MIPR)
COTS Options:	N/A
# of Program Re-baselines	One (Cost – Acquisition Decision Memorandum: 09APR2021)
Current Production Capacity	Minimum Sustainment Rate (MSR): 12 (FY24) // Max: 96 (FY24)
Obligations/Disbursements (as of): 6MAR24	(PROC) FY22: 91.3%/2.0%; FY24: 0%/0%
US States/Interest:	Coolbaugh Township, PA

PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY24	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE							\$0
PROC	\$5,190	\$5,705	\$18,744	\$34,109	\$35,324	\$35,417	\$129,299
OTHER							\$0
TOTAL \$	\$5,190	\$5,705	\$18,744	\$34,109	\$35,324	\$35,417	\$129,299
Quantity	10	11	36	65	68	68	248

Congressional Marks:

PDM:

Other Funding Issues:



Fire Suppression Refill System (FSRS)



CUI

REQUIREMENTS/CAPABILITY TO THE FORCE

The Fire Suppression Refill System (FSRS) is a modular, flexible, standardized fire suppression refill station consisting of a transportable ISO 8x8x20 container with an integrated environment control unit (ECU) to provide the necessary operational environment (temperature/humidity) to allow for safe refill operations. It provides the capability to fill multiple Fire Suppression System Bottles (FSSBs) and Nitrogen Bottles at the point of need. A rapid deployable refill station to be able to be used and operated in austere environments.

Approved Requirements Documents: Annex A to the Standard Automotive Tool Set (SATS) Operational Requirements Document (ORD) (20 FEB 2013)

Last Quarter Events:

- Tool Load Extension awarded (5 Feb 24)
- FY24 Navy container buy awarded (15) EA (11 Dec 23)
- FSRS tool load contract awarded (15) EA (21 Nov 23)
- FY24 program for (10) EA US Army accepted at JMTC
- 1st FY24 FMS FRS accepted at JMTC

Next Quarter Events:

- Additional Poland FMS qty increase
- Unit fielding's (Mar)

CAPABILITY DESCRIPTION

Provides the capability to support operations as far forward as possible on the battlefield by refilling fire suppression bottles near the weapon systems allowing major combat systems to return to the fight rapidly. FSRS supports multiple families of vehicles that require fire suppression and nitrogen bottle refill support.



Programmatic Overview : AAO/APO: 149 FY23 O/H: 89 (60%) TRL: 9

Acquisition Pathway & Acquisition Category:	Major Capability Acquisition (MCA) - Acquisition Category III
Milestone Decision Authority:	PEO Combat Support & Combat Service Support (PEO CS&CSS)
Program Office:	Product Manager Engineering Maintenance Support Equipment (PdM EMSE)
Phase:	Production & Deployment
Prime contractor:	(Organic) Rock Island Arsenal Joint Manufacturing and Technology Center (RIA – JMTC)
Average Proc Unit Cost (\$M):	\$390K
Proponent:	Sustainment Capabilities Development & Integration Directorate (S-CDID)
Contract Type:	Military Interdepartmental Purchase Request (MIPR)
COTS Options:	N/A
# of Program Re-baselines	One (Schedule – Acquisition Decision Memorandum: 29 JUL 2020)
Current Production Capacity	Minimum Sustainment Rate (MSR): 1 (FY24) // Max: 30 (FY24)
Obligations/Disbursements (as of): 29FEB24	FY24: 94.9%/4%; FY23: 92.4%/88.2%; FY22: 100%/96.5%
US States/Interest:	Rock Island Arsenal, Illinois

PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY24	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE	0	0	0	0	0	0	\$0
PROC	\$3,849	\$9,768	\$9,769	0	0	0	\$19,537
OTHER	0	0	0	0	0	0	\$0
TOTAL \$	\$3,849	\$9,768	\$9,769	0	0	0	\$19,537
Quantity	9	22	22	0	0	0	44

Congressional Marks:

FY24 Congressional Adjustment: None

PDM: N/A

Other Funding Issues: NA



Next Generation Shop Equipment Welding (NG SEW) U.S. ARMY

CUI

REQUIREMENTS/CAPABILITY TO THE FORCE

NG SEW welding capabilities include arc, stick, MIG (250 Amp), and gas. The NG SEW has gas cutting and compressed air to support a plasma cutter. A 15Kw AMMPS generator provides power to operate all the welding equipment, compressor along with electric grinders. The NG SEW reduces cutting time by 1/3 of the current capability, provides additional payload, and the ability to cut aluminum.

Approved Requirements Documents: Capability Production Document (CPD) (06JAN2017)

Last Quarter Events:

- Fielding (NGREA)
- Production & Fielding (NGREA)

Next Quarter Events:

- Production & Fielding (NGREA)

CAPABILITY DESCRIPTION

The NG SEW consists of modern, state of the art cutting capabilities employable anywhere on the battlefield to rapidly return damaged equipment to mission capable status. The NG SEW provides commanders a more mobile, responsive, and agile capability to perform on-site welding in the SMC and BCT formations. Without the NG SEW operational readiness and combat platform availability will suffer while relying on obsolete equipment and the supply system, therefore preventing rapid repair of critical combat platforms.



Programmatic Overview : AAO: 547 FY23 O/H: 98 (18%) TRL: 9	
Acquisition Pathway & Acquisition Category:	Major Capability Acquisition (MCA) - Acquisition Category III
Milestone Decision Authority:	PEO Combat Support & Combat Service Support (PEO CS&CSS)
Program Office:	Product Manager Engineering Maintenance Support Equipment (PdM EMSE)
Phase:	Production & Deployment
Prime contractor:	(Organic) Rock Island Arsenal – Joint Manufacturing & Technology Center (RIA-JMTC)
Average Proc Unit Cost (\$M):	\$220K
Proponent:	Army Futures Command (AFC)
Contract Type:	MIPR
COTS Options:	N/A
# of Program Re-baselines	None
Current Production Capacity	N/A
Obligations/Disbursements (as of): 27OCT23	N/A
US States/Interest:	Rock Island Arsenal, Illinois

PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY24	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE		\$0	\$0	\$0	\$0	\$0	\$0
PROC		\$3,086	\$11,602	\$17,614	\$18,616	\$18,836	\$69,754
OTHER							
TOTAL \$		\$3,086	\$11,602	\$17,614	\$18,616	\$18,836	\$69,754
Quantity		14	52	80	84	84	314

Congressional Marks:

FY24 Congressional Adjustment: None

PDM:

Other Funding Issues:



Refrigeration Tool Kit (RTK)



CUI

REQUIREMENTS/CAPABILITY TO THE FORCE

- Serves as the sole capability to maintain and sustain all ECUs in Army inventory
- Provides the capability to support ECU maintenance and sustainment operations far forward on the battlefield allowing major combat systems to return to the fight rapidly
- Allows the Army to meet requirements of AIM, EPA, and the Clean Air Act

Approved Requirements Documents: Capability Production Document (CPD) (15JULY2015)

Last Quarter Events:

- FY23 Level 1 Fielding Close Outs
- Follow on Contract Award and SOW Meeting (Target – March)

Next Quarter Events:

- FY24 Delivery Order for 29 RTK-Base
- Fielding of kits (1ea Base/Ind) in support of PD for Ukraine effort

CAPABILITY DESCRIPTION

The RTK is an assemblage of Commercial Off The Shelf (COTS) hand tools and refrigeration equipment configured in tool chests that are transportable by owning unit's organic vehicles or other transportation assets. The RTK provides a unit with consolidated, standardized tools needed to meet the refrigeration maintenance mission. The RTK provides the newest technology in refrigeration, to include the capability to determine different types of refrigerants and identify contaminated refrigerants.



Programmatic Overview : AAO: 3,310 FY23 O/H: 592 (18%) TRL: 9

PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY24	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE							
PROC	\$1,120	\$2,787	\$9,828	\$9,805	\$9,807	\$9,826	\$42,053
OTHER							
TOTAL \$	\$1,120	\$2,787	\$9,828	\$9,805	\$9,807	\$9,826	\$42,053
Quantity	31	77	273	272	272	272	1166

Congressional Marks:

PDM:

Other Funding Issues:

Acquisition Pathway & Acquisition Category:	Major Capability Acquisition (MCA) - Acquisition Category III
Milestone Decision Authority:	PEO Combat Support & Combat Service Support (PEO CS&CSS)
Program Office:	Product Manager Engineering Maintenance Support Equipment (PdM EMSE)
Phase:	Production & Deployment
Prime contractor:	Beyond Vision, an Ability One program
Average Proc Unit Cost (\$M):	\$27,000K
Proponent:	Sustainment Capabilities Development & Integration Directorate (S-CDID)
Contract Type:	Firm Fixed Price (FFP)
COTS Options:	N/A
# of Program Re-baselines	None
Current Production Capacity	Maximum Production Rate: 780/year
Obligations/Disbursements (as of): 26FEB24	(PROC) FY24: 0%/0%
US States/Interest:	Arlington, VA

CUI LIN:





Standard Automotive Tool Set (SATS)



CUI

REQUIREMENTS/CAPABILITY TO THE FORCE

The SATS provide the Maintenance Companies with the necessary support at the Point of Need on the Battlefield. The SATS provides the best support to the warfighter. Without this equipment, the Maintainers will not be able to repair at the point of need. Readiness rates will be adversely impacted because we don't have the right equipment to conduct the mission.

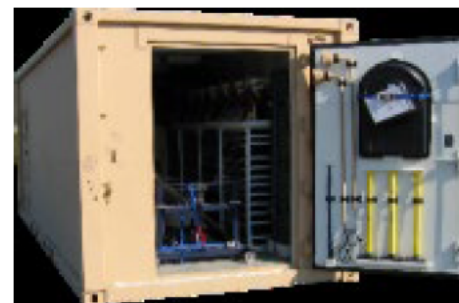
Approved Requirements Documents:

Last Quarter Events:

Next Quarter Events:

CAPABILITY DESCRIPTION

SATS Provides the war fighter a common tool set with the capability to perform two level maintenance. Provides the most frequently required automotive maintenance tools that can be augmented by modular packages that are tailored to unit mission requirements and organizational design. The SATS eliminates obsolete tools, unneeded redundancy, inefficient tool proliferation, increases tool quality, improves transportability, and tool accountability.



Programmatic Overview : AAO: 2,807 FY23 O/H: 2,674 (95%) TRL: 9	
Acquisition Pathway & Acquisition Category:	N/A; Acquisition Category III
Milestone Decision Authority:	PEO CS&CSS
Program Office:	PdM EMSE
Phase:	Sustainment
Prime contractor:	(Organic) Rock Island Arsenal – Joint Manufacturing Technology Center (RIA-JMTC)
Average Proc Unit Cost (\$M):	\$305K
Proponent:	Sustainment Capabilities Development & Integration Directorate (S-CDID)
Contract Type:	MIPR
COTS Options:	N/A
# of Program Re-baselines	None
Current Production Capacity	
Obligations/Disbursements (as of):	(PROC) FY24: 0%/0%
US States/Interest:	Rock Island Arsenal, Illinois

PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY24	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE					\$16,532	\$24,046	\$40,578
PROC							
OTHER							
TOTAL \$					\$16,532	\$24,046	\$40,578
Quantity					54	78	132

Congressional Marks:

FY24 Congressional Adjustment: None

PDM:

Other Funding Issues:



Calibration Sets (CALSETS)



REQUIREMENTS/CAPABILITY TO THE FORCE

Provide capability to calibrate 90% (threshold) to 98% (objective) of all TMDE in the Army inventory

Approved Requirements Documents:

CALSETS Operation Requirements Document with 2008 Revalidation

Last Quarter Events:

- Submitted JWG approved acquisitions packages to BFM for 57 each Keysight 26G MMRs and 18 each 50G MMRs to included power sensors for each MMR. (March 2024)
- CALSETS attended TMDE Requirements – AMC/AMCOM meeting. EXSUM was received (8 Mar 2024).
- The 50Ghz MMR DO 7 (18 ea, \$1.275M) acquisition package was submitted to ACC-RSA (14 Mar 2024)

Next Quarter Events:

- New NIST Support Agreement (need to get a labor waiver approved by DASA-PPR to pay NIST labor rates)
- ACE Operational Assessment testing at USATA tentatively scheduled to begin 15 Apr 2024 at USATA TSC-RSA
- Coordinating with PEO/NIST for new NIST Support Agreement
- RDTE Biosensor Calibrator Prototype: Fully automated prototype CLIN 002 award (FY24)

CAPABILITY DESCRIPTION

CALSETS verifies weapon systems ability to shoot, move and communicate through alignment and precision checks of current and future Test, Measurement, and Diagnostic Equipment (TMDE). CALSETS requires **continuous modernization** of sub-components known as instruments, due to obsolescence of components and emerging technologies as new technology requires more precision. These instruments ensure combat lethality of all weapon systems, accurate radiological and biological detection, guaranteed voice communication systems, and reliable tactical wheeled vehicles, supporting over 868,000 items throughout the Army. The CALSETS consists of the following LINs: T05045, T05046, C72669, C72601, C05083, L05015, H01546, C72642 and L05015. CALSETS is funded to Modernize calibration set LINs by replacing the components of the sets (i.e., instruments)



Programmatic Overview

FY2023 LIN AAO: 441/APO: 441 (100%) TRL:9

Acquisition Pathway & Acquisition Category:	Acquisition Category 3; Milestone C
Milestone Decision Authority:	PEO CS & CSS
Program Office:	PM Force Projection/PdM TMDE
Phase:	O&S - Continual Modernization
Prime contractor:	Various/Multiple
Average Proc Unit Cost (\$M):	Varies; \$277K-\$1650K
Proponent:	AFC Sustainment CDID
Contract Type:	Varies, typically 5-Yr FFP IDIQ 5-Yr
COTS Options:	
# of Program Rebaselines	
Current Production Capacity	Varies
Obligations/Disbursements (as of 5 Dec 2023):	2023 RDTE: \$3.9/\$2.0 OPA: \$6.8/\$4.2
US States/Interest	
Washington, California, Alabama, Vermont, Arizona	

PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE	\$2,891	\$2,941	\$2,972	\$3,001	\$3,031	\$14,836
PROC	\$8,868	\$8,989	\$8,994	\$9,003	\$9,092	\$44,946
OTHER	\$0	\$0	\$0	\$0		\$0
TOTAL \$	\$11,759	\$11,930	\$11,966	\$12,004	\$12,123	\$59,782
Quantity	0	0	0	0	0	0

Congressional Marks:

FY24 Congressional Adjustment: None

PDM: None

Other Funding Issues:

- New JWG list will evolve beginning in July 2024. As future JWG lists (2026, 2028, etc) evolve more calibration instruments will become obsolete.

LINs: T05045, T05046, C72669, C72601, C05083, L05015, H01546, C72642 and L05015



Maintenance Support Device (MSD)



REQUIREMENTS/CAPABILITY TO THE FORCE

The Army's standard general-purpose compact, lightweight, man-portable, at platform tester in rugged or non-rugged configuration used by maintenance personnel to augment system Built-in-Test/Built-in-Test Equipment (BIT/BITE) capabilities. Performs fault isolation, diagnostic and repair capabilities, and reduce intermittent weapon system electronic faults on the Army's fleet of Electronic, Tactical Wheeled, Armored Fighting, Aviation & Missile weapon systems.

Approved Requirements Documents: IFTE ORD - Mar 2000

Last Quarter Events:

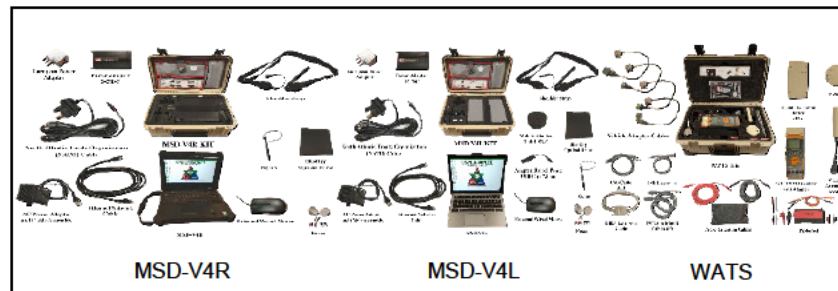
- MSD-V4 and WATS BOIP Amendment approved with 88L MOS added, 94H MOS removed, and some other adjustments resulted in net gain of 2031 MSD-V4 and loss 511 WATS from their AAOs.
- APATS NET/NEF team reimaged 240 MSDs in support of the ongoing monthly software update effort to ensure WATS firmware compatibility with the MSD operating system
- Fielded 287 MSD-V4 and 211 WATS to various maintenance locations
- Updated the Independent Gov't Cost Estimate to reflect new MSD AAO per BOIP ORDAB

Next Quarter Events:

- MSD-V4 fielding & New Equipment Training
- Complete MSD-V4 Rugged ECP First Article Test

CAPABILITY DESCRIPTION

The Maintenance Support Device (MSD) host Interactive Electronic Technical Manuals. The MSD in conjunction with the Wireless At-platform Test Set (WATS) intrusively tests and diagnoses Weapon Systems to the Line Replaceable Unit level; reduces Mean Time To Repair through automation of manual troubleshooting steps. It hosts GCSS-A software to provide the maintainer an7 information entry point into the Logistics enterprise. The MSD provides a standard software loader/verifier capability to keep weapon system software up-to-date and transfer diagnostic data. The Intermittent Fault Detection System performs electronic fault isolation and cable test to reduce intermittent weapon system electronic faults at all levels of maintenance.



Programmatic Overview

AAO/APO: 46,908/40,214 O/H:28,084 (60%) TRL: 9

Acquisition Pathway & Acquisition Category:	Major Capability Acquisition // Acquisition Category III
Milestone Decision Authority:	PEO CS&CSS
Program Office:	Product Director, Test, Measurement, and Diagnostic Equipment (PD TMDE)
Phase:	Production and Deployment
Prime contractor:	DRS Network & Imaging Systems, LLC (MSD); Yulista Aviation, Inc. (WATS)
Average Proc Unit Cost (\$M):	MSD-V4L=\$0.004; MSD-V4R=\$0.006; WATS=\$0.006
Proponent:	Sustainment
Contract Type:	Firm Fixed Price (FFP) - Indefinite Delivery Indefinite Quantity (IDIQ)
COTS Options:	N/A
# of Program Rebaselines	None
Current Production Capacity	MSD-V4L=500/month; MSD-V4R=500/month; WATS=500/month
Obligations/Disbursements (as of 29 Feb 24):	RDTE: 100% / 83.2% (FY23); 12.4% / 3.1% (FY24) PROC: 98.8% / 78.9% (FY22); 92.5% / 45.1% (FY23); 35.2% / 0% (FY24)
US States/Interest:	Alabama

PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE	\$1,176	\$1,200	\$1,213	\$1,226	\$1,238	\$6,053
PROC	\$23,281	\$12,027	\$12,035	\$12,019	\$12,139	\$71,501
OTHER						\$0
TOTAL \$	\$24,457	\$13,227	\$13,248	\$13,245	\$13,377	\$77,554
Quantity	1190	1644	1571	1479	1426	7310

Congressional Marks:

FY24 Congressional Adjustment: None

PDM:

Other Funding Issues: Requires funding acceleration to procure MSD-V4 and WATS to achieve AAO by FY30 to timely replace legacy MSD when Army transitions to Windows 11 in FY26

LIN: T05098 (MSD-V4R), T05099 (MSD-V4L), W05009 (WATS)



Next Generation Automatic Test System (NGATS)



CUI

REQUIREMENTS/CAPABILITY TO THE FORCE

Requirements Documents: Capability Production Document (CPD), 2007

Last Quarter Events:

- Electro-Optics TPH (GPEOH replacement) program review/User eval (5 Mar 24)
- Completed NGATS TM Verification, updated MAM (Mar 24)
- Awarded DO4 Production (4 systems) and IDIQ Spares (Mar 24)

Next Quarter Events:

- LAR Training Class at PD TMDE (08 APR 24)
- NGATS QPR at Boeing (18 April 2024)
- AMB Spring Meeting (8 May 2024)

CAPABILITY DESCRIPTION

NGATS is a mobile, rapidly deployable, reconfigurable general-purpose automatic test and diagnostic system which provides field, sustainment, and depot level maintenance testing and screening directly to the Army's major weapons systems to maintain the readiness and availability of those combat systems. It is the Army Standard Off-Platform Automatic Test System capable of fault isolation, diagnostics and repair of current and future weapons systems. NGATS provides the BCTs an inherent capability of repairing multiple systems with minimal Soldiers and civilian support making them more efficient and better capable of supporting Multi-Domain Operations (MDO) self-sustaining in Large Scale Combat Operations (LSCO).



Programmatic Overview

Acquisition Pathway & Acquisition Category:	Major Capability Acquisition (MCA) // ACAT III
Milestone Decision Authority:	PEO CS&CSS
Program Office:	PD TMDE
Phase:	Production & Deployment
Prime contractor:	Boeing
Average Proc Unit Cost (\$M):	\$4.5M
Proponent:	S-CDID
Contract Type:	IDIQ 5-year
COTS Options:	N/A
# of Program Rebaselines	1
Current Production Capacity	3 per month
Obligations/Disbursements (as of):	
US States/Interest	

PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE	4,860					\$4,860
PROC	\$25,048					\$25,048
OTHER						\$0
TOTAL \$	\$29,908					\$29,908
Quantity	6					6

Congressional Marks:

FY24 Congressional Adjustment: None

PDM:

Other Funding Issues: No funding beyond FY25. 12 of 18 DSBs unfunded.



Test Equipment Modernization (TEMOD) CTE



REQUIREMENTS/CAPABILITY TO THE FORCE

The Communications Test Equipment (CTE) is modernizing radio, navigation, and AVONIC system field level maintenance by providing a new radio test set that replaces the unsupportable AN/GRM-122. The TS-4549 is a benchtop hardware and software platform used to maintain, troubleshoot, repair, the Army's radio systems by 94E and 94R MOS CMF down to circuit card level.

Requirements Documents: Capability Production Document (CPD) - (Nov 2007)

Last Quarter Events:

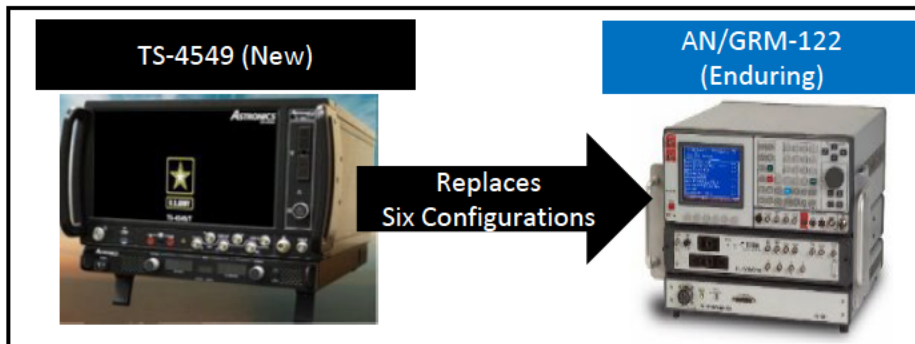
- TS-4549 (Radio Test Set): -D&F and approved AP with ASA(ALT) as of 17 Jan 24 (ECD: 15 Mar 24). Single Source D&F for SCO approval (ECD: 4 Mar 24). AP Amendment approved (20 Feb). Adjudicating KO comments against SOW, CDRL, and CLINs for Draft RFP release. Final RFP release estimated 15 Mar. Contract award est 31 May 2024

Next Quarter Events:

- Pending approval of D&F at ASA (ALT) level to authorize follow on production contract

CAPABILITY DESCRIPTION

The TS-4549 will support 94 CMF field level maintenance actions by providing automated troubleshooting down to circuit card level for over 645k mixed model Army tactical radios, Avionic/Navigation LRUs, software loading & updates, and is interoperable with the existing ON-373 SINCGARS and Aviation cable sets.



Programmatic Overview

AAO/APO: 1,996 FY23 O/H: 0 (0%) TRL: 7

Acquisition Pathway & Acquisition Category:	Major Capability Acquisition; Acquisition Category 3
Milestone Decision Authority:	PEO CS & CSS
Program Office:	Product Director, Test, Measurement, & Diagnostic Equipment
Phase:	Milestone C
Prime contractor:	Astronics
Average Proc Unit Cost (\$M):	\$ 0.086 (Estimated)
Proponent:	Sustainment
Contract Type:	CTE: IDIQ FFP / 5 years (pending)
COTS Options:	
# of Program Rebaselines	None
Current Production Capacity	Estimated at 50 per month
Obligations/Disbursements (as of):	Estimated 3QFY24
US States/Interest:	Florida

PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY25	FY26	FY27	FY28	FY29	FYDP (FY245-29)
RDTE	\$3,805	\$206	\$208	\$213	\$215	\$4,647
PROC	\$24,086	\$27,946	\$27,964	\$27,990	\$28,270	\$136,256
OTHER						\$0
TOTAL \$	\$27,891	\$28,152	\$28,172	\$28,203	\$28,485	\$140,903
Quantity	351	346	355	362	221	1,635

Congressional Marks:

FY24 Congressional Adjustment: None

PDM:

Other Funding Issues:



Test Equipment Modernization (TEMOD) GPETE U.S. ARMY

CUI

REQUIREMENTS/CAPABILITY TO THE FORCE

TEMOD items are General Purpose Electronic Test Equipment (GPETE) used to maintain, troubleshoot, repair, and verify accuracy, safety, readiness of all weapon systems. Rapid technology development, obsolescence, and unsupportable test equipment requires continuous modernization of the legacy items with COTS products.

Requirements Documents: CPD (Nov 2007)

Last Quarter Events:

- CM-523 Spectrum Analyzer: Received multiple CDRLs that support log development and engineering reviews
- TS-4530A Radar Test Set: Coordinated with several PM's during software upgrade to comply with new aircraft transponders
- AN/USM-485 Transmission Test Set (Air Field): Hosted IPT with Air Traffic Control Services Command, PM A3S, and other stakeholders to determine requirements for TDA only procurement
- Posted two Sources Sought on SAM.Gov, one for the AN/PRM-36 Radio Test Set (Hand-held), and another for the AN/USM-459 Frequency Counter replacement projects. Both systems were #2 & #3 on the G8 approved FY22 Joint Working Group Prioritization List
- Fielded multiple test sets to various Compo 1, 2, and 3 units

Next Quarter Events:

- Continue to monitor Decision Support Tool and field systems

CAPABILITY DESCRIPTION

TEMOD manages over 30 LINs that provide system diagnostic support (on & off platform) including the following:

- Ability to measure electrical voltage, current, and resistance on/off platform
- Compare electrical communication signals, including complex radio waveforms
- Measures time/frequency of both analog and digital signals
- Measures electrical power in Watts, decibels, including VSWR/antenna testing
- Signal tracing and other associated electrical circuit card troubleshooting capability



Programmatic Overview

Acquisition Pathway & Acquisition Category:	Major Capability Acquisition; Acquisition Category 3
Milestone Decision Authority:	PEO CS & CSS
Program Office:	Product Director, Test, Measurement, & Diagnostic Equipment
Phase:	Milestone C
Prime contractor:	Keysight Technologies, Anritsu, Viavi, Kitco
Average Proc Unit Cost (\$M):	Varies per system: \$0.001 - \$ 0.040
Proponent:	Sustainment
Contract Type:	GPETE: IDIQ FFP /5 years CTE: IDIQ FFP / 7 years (pending)
COTS Options:	
# of Program Rebaselines	None
Current Production Capacity	Varies per project. Normally COTS is 30-80 per month
Obligations/Disbursements (as of):	Varies
US States/Interest:	California, Virginia, Colorado, Florida, Maryland

PROGRAMMING BUDGET

Budget Position: PB25 LOCK

APPN (\$K)	FY25	FY26	FY27	FY28	FY29	FYDP (FY25-29)
RDTE	\$195	\$208	\$210	\$213	\$215	\$1,041
PROC	\$13,174	\$16,063	\$16,073	\$15,893	\$16,052	\$77,255
OTHER	\$187					\$187
TOTAL \$	\$13,556	\$16,271	\$16,283	\$16,106	\$16,267	\$78,483
Quantity	223	900	1,825	3,557	2,022	8,527

Congressional Marks:

FY24 Congressional Adjustment: None

PDM:

Other Funding Issues: AN/PRM-36 replacement project may cost significantly more than originally estimated. Cost could delay starting other new projects on JWG lists until FY30



Maintenance Cost Factors



CONTROLLED BY: The Department of the Army G4 (DALO-ZA)
Controlled by: OFFICE SYMBOL
Classification Level:
Control:
POC: RANK Name



Purpose & Agenda



Purpose: Provide an overview on DASA-CE cost factors used to program/budget unit OPTEMPO funding in the TT PEG and briefly discuss the impacts from unit reporting issues.

Agenda:

- OPTEMPO Resourcing and Training Resource Model (TRM) Overview.
- OPTEMPO Funding Process.
- Cost Factor (CF) Overview.
- Cost Factor Components.
 - Demands (Numerator Quantity).
 - Price & Credit (Numerator Pricing).
 - Activity & Density (Denominator).
- Demand CF Development Example: AH-64E Apache.
- Class II/IV Cost Factor Methodology.
- Class III Cost Factor Methodology.
- Cost Factor Talking Points.



OPTEMPO Resourcing and TRM Overview



OPTEMPO Resourcing:

- Army program that provides critical resources required for MTOE units to conduct and support full-spectrum operations (FSO) training, maintain unit equipment, and sustain routine, day-to-day operations.
- Unit *commander's primary means of resourcing unit training and readiness*.
- Brigade Combat Team's (BCT) funding for fuel (CLIII), repair parts (CLIX), and supplies (CLII and CLIV).

Training Resource Model (TRM):

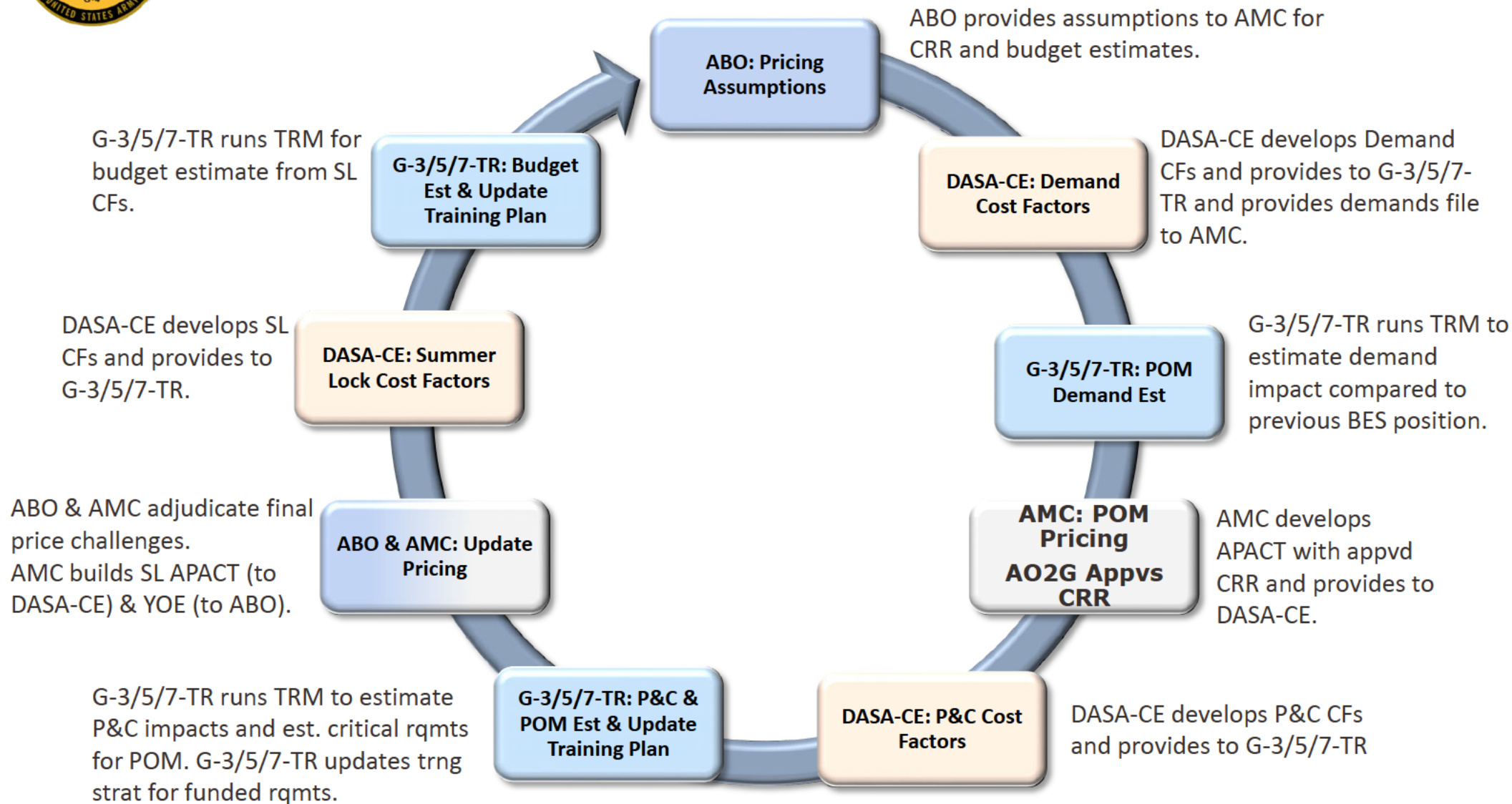
- Model designed to estimate OPTEMPO POM, Budget Estimate Submission (BES), and President's Budget (PB) *funding at the UIC-level for home-station training* (excludes OCO).
- CLIX OPTEMPO resources are based on 3 key parameters: *cost factors (CF), future training strategy (FTS), and future force structure (FFS)*.
 - Cost factors are the cost per hour (or mile) by system (e.g., UH-60M). This is estimated at the weapon system and MACOM-level.
 - Future training strategy is the number of hours (or miles) per system (e.g. UH-60M) flown (or driven) per FY. This is estimated at the weapon system and UIC-level.
 - Future force structure is the number of systems determined by the MTOE of the future unit. This is estimated at the weapon system and UIC-level.
- Calculates CLIX resources using the following formula:

$$\frac{(CF) * (FTS) * (FFS)}{(\text{cost/hrs}) * (\text{hrs/system}) * (\text{system})} = \text{cost}$$

- TRM is also used to calculate CLII, CLIII, CLIV, and other training-related funding.
- Managed by HQDA G-3/5/7 - TR.



OPTEMPO Funding Process



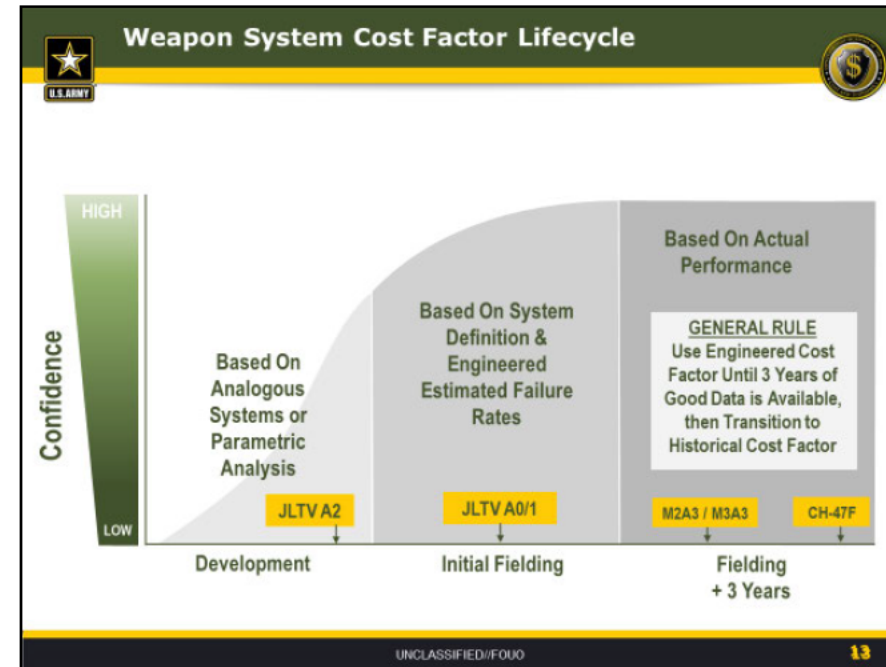


Cost Factor Overview



- There are *two types of CFs: Demand and Price & Credit* (pricing is/may be updated for POM, BES, & PB).
- CFs are developed for each key weapon system the Army owns and operates, by weapon system by MACOM for each POM/BES/PB.
- CFs use *historical demands* (CLIX parts), *historical activity* (hours or miles from readiness reporting), and *future pricing* (Army Price and Credit Table – APACT).
 - Pricing is estimated net of credit and includes the cost recovery rate (CRR).
- Demand CFs are developed using three methods; *historical based, engineered, and cost estimating relationship* (CER).
 - Vast majority of CFs are derived using historical data.
 - Engineered and CER CFs are developed for those systems, typically newly fielded, that do not have a sufficient number of historical years of data to appropriately estimate a CF.
- DASA-CE develops over 2,000 unique CFs for each relevant weapon system and MACOM combination.

<u>COMMAND</u> FORSCOM	<u>SYSTEM</u> AH-64E	<u>Fiscal Years</u> FY 19-23
PARTS QUANTITY * PARTS PRICE <hr/> ACTIVITY (MILES OR HOURS)		

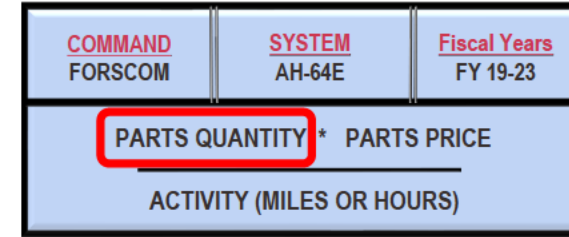




Cost Factor Components Demands (Numerator Quantity)



- Demands are the CLIX parts ordered by units which *changes in both mix and quantity* each FY.
- Demand cost factors are the estimated rate of consumption of CLIX parts by MDS and MACOM in the form of dollars per hour, mile, or system.



Example below is for FORSCOM's UH-60M during Demand phase.

Cost Drivers			Quantities by NIIN - Year over Year Changes											
NIIN	Nomen	RCN	Mds	Fy										
				2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
015120889	HEAD,ROTARY WING	R	AH-64E	36.35	27.38	11.43	9.88	5.00	6.94	17.52	19.50	1.33	3.31	0.88
015031701	ENGINE,AIRCRAFT,TURBO	R	AH-64E	12.18	7.60	7.05	7.70	8.41	0.36	7.98	7.51	4.10	1.37	0.78
015194248	FUEL TANK COMBO-PACK	R	AH-64E	14.00	3.00	14.00	9.50	2.98	36.04	2.78	13.75	2.36	-	-
016874905	STRAP ASSEMBLY,MAIN	C	AH-64E	123.55	9.13	-	-	-	-	-	-	-	-	-
015075294	GEARBOX,TAIL ROTOR	R	AH-64E	14.00	13.00	4.00	5.00	4.00	-	1.44	7.69	1.30	-	-
015169622	RECEIVER,FLIR,TARGETI	R	AH-64E	17.00	12.00	13.00	3.00	-	-	-	-	-	-	-
016643119	DISPLAY UNIT,MULTIFUN	R	AH-64E	23.11	14.44	11.13	1.00	2.00	-	-	-	-	-	-
012737610	SERVOCYLINDER	R	AH-64E	17.00	12.00	7.00	7.00	7.00	3.94	12.03	10.17	7.62	6.99	-
015895298	TURRET,SENSOR-SIGHT,H	R	AH-64E	7.00	15.00	20.50	5.00	-	-	-	-	-	-	-
015031700	POWER TURBINE MODULE,	R	AH-64E	6.16	-	1.29	0.94	1.00	0.40	2.65	0.71	0.56	0.26	0.15
016833674	PROCESSOR,FLIGHT INFO	R	AH-64E	8.00	-	-	-	-	-	-	-	-	-	-
015330686	ANTENNA	R	AH-64E	4.00	2.53	1.00	2.46	-	-	3.21	-	-	-	-
016131790	SWASHPLATE,CONTROLLAB	R	AH-64E	26.11	28.00	15.07	6.00	2.12	1.71	-	-	-	-	-
014857444	DISPLAY UNIT,MULTIFUN	R	AH-64E	17.00	-	17.84	12.00	14.00	5.00	6.07	6.06	1.21	1.09	-
015183635	M-PNVS RECEIVER	R	AH-64E	9.00	3.00	7.00	6.00	10.00	-	-	-	-	-	-
015399151	RECEIVER-TRANSMITTER,	R	AH-64E	14.00	15.65	1.00	3.00	1.12	-	-	-	-	-	-
015194852	POWER UNIT,GAS TURBIN	R	AH-64E	7.11	11.58	3.00	3.00	1.00	-	-	3.11	3.31	1.66	-
013122387	BLADE,ROTARY RUDDER	R	AH-64E	66.00	61.01	46.02	36.00	40.00	31.49	44.89	23.00	16.17	12.69	-
015017715	STRAP ASSY,MAIN ROT	C	AH-64E	6.09	7.71	2.00	13.00	5.00	51.29	55.84	56.30	19.10	3.07	-
011634514	PIN ASSY,LINK,ROTOR	C	AH-64E	1,486.45	1,641.98	1,137.95	451.72	298.00	240.71	359.48	408.39	165.57	104.76	-
014131061	TRANSMITTER CONTROLGR	R	AH-64E	4.00	6.00	3.52	5.56	3.00	-	13.57	0.58	0.20	-	-
016876268	TURRET,SENSOR-SIGHT,H	R	AH-64E	2.00	-	-	-	-	-	-	-	-	-	-
015711319	ADAPTER SET,AIRCRAFT	N	AH-64E	6.00	-	-	-	1.00	-	-	-	-	-	-
015301625	GEARBOX ASSEMBLY,AIRC	R	AH-64E	13.00	13.00	9.00	11.00	2.00	3.47	7.09	7.22	-	0.37	-
015298546	DAY SENSOR SUBASSY	R	AH-64E	7.00	6.00	11.00	1.00	-	-	-	-	-	-	-
014712793	SUPPORT,STRUCTURALCOM	N	AH-64E	96.00	45.00	27.00	22.00	9.36	-	11.36	33.32	4.95	-	-
013261804	MANIFOLD,HYDRAULICSYS	R	AH-64E	25.00	19.00	23.02	23.38	13.00	2.89	18.87	13.99	4.64	0.37	0.44
011532281	SHOCK STRUT ASSY,	R	AH-64E	24.00	16.00	9.00	8.00	4.00	0.47	4.96	7.32	5.90	3.31	-
015877242	FUEL CONTROL,MAIN,TUR	R	AH-64E	19.73	14.91	11.07	1.04	3.02	0.45	1.96	8.20	0.09	1.26	0.19
015353515	SUPPORT,SHOCK STRUT,H	R	AH-64E	19.00	22.00	11.00	8.00	9.45	2.47	11.38	2.26	7.96	4.16	-

Cell Highlighting: Gray=0 qty for 2023, Yellow=New NIIN 2023, Blue=Rep, Orange=Con, Lgt Green=Nomi, Red=-25% Change, Green=+25% Change



Cost Factor Components

Price & Credit (Numerator Pricing)



Future pricing values (i.e., APACT) are applied to the demands to calculate the dollar value in the numerator of the cost factor.

- There are typically two pricing files each year: POM file 1 (POM) and Summer Lock (BES).
- CLIX parts may have a change in price, unserviceable credit, and serviceable credit each year.

COMMAND FORSCOM	SYSTEM AH-64E	Fiscal Years FY 19-23
PARTS QUANTITY * PARTS PRICE		
ACTIVITY (MILES OR HOURS)		

Example below is subset of APACT fields for aviation NIINs.

NIIN	FSC	SOS	MATCAT	NOMEN	PRICE	SERV	UNSERV	N_CHG_Y1Y2	SURCHARGE	MRC	ARI	UI	CLASS
015120889	1615	B17	H21BJ	HEAD,ROTARY WING	\$407,811.00	\$ -	\$ -	1.0382	1.2022	D	C	EA	9
015031701	2840	B17	H21BN	ENGINE,AIRCRAFT,TURBO	\$947,920.00	\$ 788,488.00	\$ 223,658.00	1.0382	1.2022	D	E	EA	9
012737610	1650	B17	H21BJ	SERVOCYLINDER	\$102,947.00	\$ -	\$ -	1.0382	1.2022	D	R	EA	9
015075294	1615	B17	H21BJ	GEARBOX,TAIL ROTOR	\$199,644.00	\$ -	\$ -	1.0382	1.2022	D	R	EA	9
013122387	1615	B17	H21BJ	BLADE,ROTARY RUDDER	\$ 31,557.00	\$ -	\$ -	1.0382	1.2022	O	R	EA	9
015194248	1560	B17	H21BJ	FUEL TANK COMBO-PACK	\$320,844.00	\$ -	\$156,197.00	1.0382	1.2022	D	E	EA	9
014857444	1260	B17	H21BZ	DISPLAY UNIT,MULTIFUN	\$191,698.00	\$143,605.00	\$ 84,995.00	1.0382	1.2022	D	E	EA	9
015194852	2835	B17	H21BZ	POWER UNIT,GAS TURBIN	\$343,201.00	\$257,100.00	\$104,064.00	1.0382	1.2022	D	R	EA	9
016643119	1260	B17	H21BZ	DISPLAY UNIT,MULTIFUN	\$191,698.00	\$143,605.00	\$ 84,995.00	1.0382	1.2022	D	E	EA	9
012547793	1615	B17	H21BJ	GEARBOX,TAIL ROTOR	\$199,644.00	\$ -	\$ -	1.0382	1.2022	D	E	EA	9
016772585	1615	B17	H22BJ	STRAP ASSEMBLY,MAIN	\$ 23,570.00	\$ -	\$ -	1.0382	1.2022	Z		EA	9
015301625	1680	B17	H21BJ	GEARBOX ASSEMBLY,AIRC	\$ 94,971.00	\$ -	\$ -	1.0382	1.2022	D	E	EA	9
016715373	5895	B16	G21QU	INTERFACE UNIT,COMMUN	\$ 57,146.00	\$ -	\$ -	1.0382	1.4227	D	E	EA	9
011634514	1615	B17	H22BJ	PIN ASSY,LINK,ROTOR	\$ 840.00	\$ -	\$ -	1.0382	1.2022	Z		EA	9
016131790	1615	B17	H21BZ	SWASHPLATE,CONTROLLAB	\$ 61,381.00	\$ 51,057.00	\$ 6,043.00	1.0382	1.2022	D	E	EA	9
013261804	4730	B17	H21BJ	MANIFOLD,HYDRAULICSYS	\$ 63,398.00	\$ -	\$ -	1.0382	1.2022	D	E	EA	9
016874905	1615	B17	H22BJ	STRAP ASSEMBLY,MAIN	\$ 23,570.00	\$ -	\$ -	1.0382	1.2022	Z		EA	9
015353515	1620	B17	H21BJ	SUPPORT,SHOCK STRUT,H	\$ 67,751.00	\$ 56,356.00	\$ 16,768.00	1.0382	1.2022	D	E	EA	9
013521531	3040	B17	H21BJ	CONNECTING LINK,RIGID	\$ 18,621.00	\$ -	\$ -	1.0382	1.2022	D	E	EA	9
016049866	6115	B17	H21BZ	GENERATOR,ALTERNATING	\$ 37,769.00	\$ 28,293.00	\$ 18,820.00	1.0382	1.2022	D	R	EA	9
015153538	2840	B17	H21BN	ROTOR,TURBINE,AIRCRAF	\$238,225.00	\$ -	\$ 58,369.00	1.0382	1.2022	D	E	EA	9
015031700	2840	B17	H21BN	POWER TURBINE MODULE,	\$285,957.00	\$ -	\$ -	1.0382	1.2022	D	E	EA	9



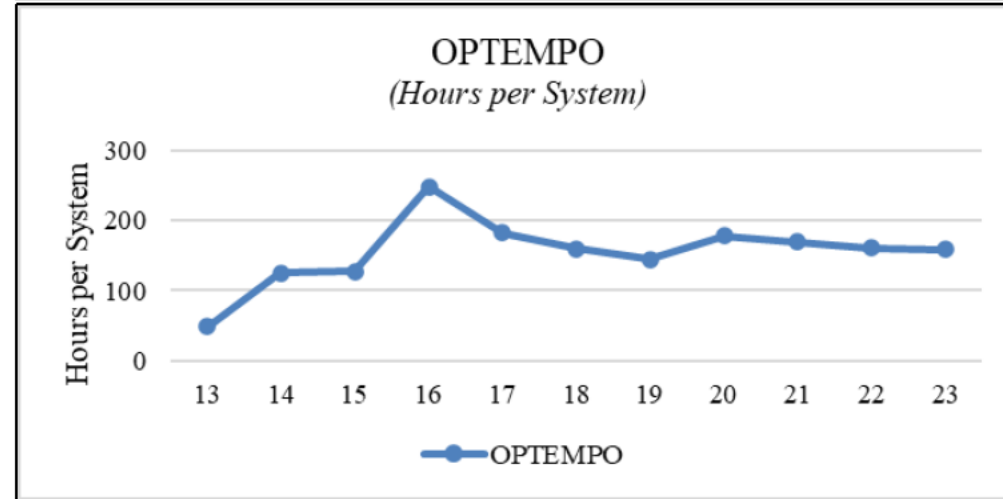
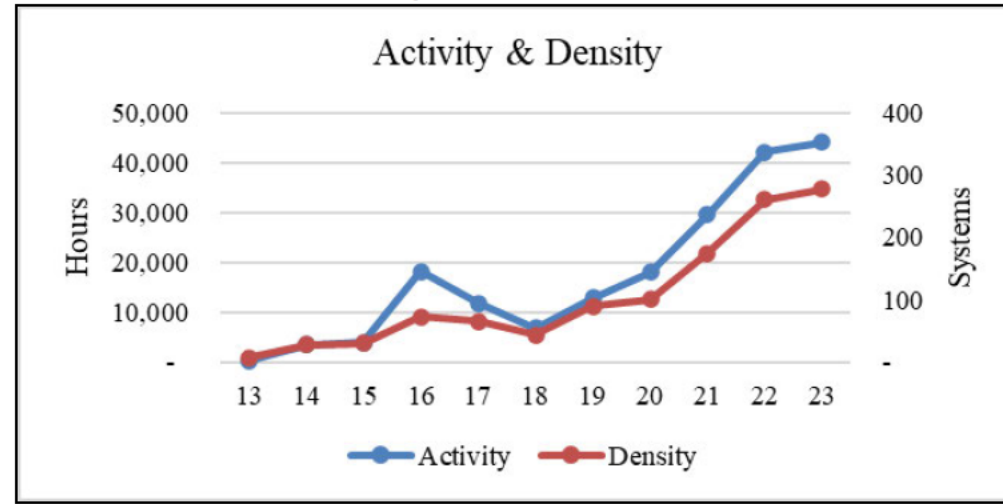
Cost Factor Components

Activity & Density (Denominator)



- *Denominator of the CF is estimated from activity* (hours or miles) associated with the weapon system and MACOM.
- DASA-CE applies various activity data cleansing techniques for each unique collection of weapon systems to mitigate major data reporting issues and errors (**ground systems only**).
- DASA-CE reviews and approves all data cleansing results each year to ensure no major impacts on each CF.
- *Density is the number of weapon systems* and OPTEMPO is referred to as hours per system (or miles per system).
- CFs are developed for home-station training; hence demands and activity are *removed from periods when units are deployed*, per Army and OSD fiscal guidance.

Examples below are for FORSCOM's AH-64E



Once demand quantities and activity are determined for demand CFs, they are held constant for each pricing file; ensuring buying power is retained in the P&C and SL CFs.



Demand CF Development Ah-64E Apache



MDS NAME		CF BASIS					FY 26 POM PLAN COST FACTOR RUN												
AH-64E		AH-64E					FY 26 POM PLAN					FY 26 POM PLAN (FY 26) WITH FY 2025 POM SUMMER LOCK (FY 26S)							
FC	2018	2019	2020	2021	2022	2023	OLD	3YR	4YR	5YR	PRED	PRED	LEN	CV_RMS E	MFE	RMS E	TS	MAE	MAE_RATIO
REP S	19,928,471	37,194,452	52,020,054	71,161,255	86,709,455	97,947,433	2,625.53	2,207.79	2,297.51	2,347.85	3,004.39	3,059.18	1	0.34	-548.89	1,217.86	-4.64	946.74	1.00
CON S	2,279,699	1,115,593	2,125,630	3,245,833	5,509,226	7,504,952	142.77	151.55	147.01	141.66	3,004.39	3,059.18	1	0.27	-577.81	812.42	-5.75	703.80	0.74
NAMI S	6,248,925	7,118,490	14,813,666	17,157,900	15,775,116	29,745,179	714.72	700.00	700.00	628.84	3,004.39	3,059.18	4	0.19	-445.27	718.75	-5.06	616.21	0.65
TOTAL S	28,457,094	45,333,535	68,959,349	92,132,437	116,189,697	135,197,565	3,483.02	2,964.58	3,080.72	3,118.35	3,004.39	3,059.18	4	0.22	-568.41	710.24	-5.73	694.41	0.73
ACTIVITY	6,866	12,937	18,012	22,425	22,153	44,194													
DENSITY	43	89	101	174	261	278													
OPTEMPO	159.67	145.36	178.34	170.28	161.51	158.97													
CF	4,144.64	3,080.04	3,828.52	3,119.66	2,756.38	3,059.18													
OUTLIERS	STATIC 3	STATIC 3	STATIC 3	STATIC 3	STATIC 3	STATIC 3													
FC	2018	2019	2020	2021	2022	2023	OLD	3YR	4YR	5YR	PRED	PRED	LEN	CV_RMS E	MFE	RMS E	TS	MAE	MAE_RATIO
REP S	15,942,144	36,497,852	78,074,810	90,975,860	68,499,282	82,120,224	2,625.53	2,207.79	2,297.51	2,347.85	3,004.39	3,059.18	1	0.29	220.24	889.12	1.40	787.84	1.00
CON S	1,609,360	1,763,063	2,535,843	3,109,177	4,257,845	3,618,711	142.77	151.55	147.01	141.66	3,004.39	3,059.18	4	0.15	-364.95	468.38	-4.00	364.95	0.46
NAMI S	1,227,635	3,741,257	8,080,839	18,057,479	12,260,861	17,523,562	714.72	700.00	700.00	628.84	3,004.39	3,059.18	4	0.19	-184.08	598.23	-1.53	481.36	0.61
TOTAL S	18,779,139	42,002,173	88,691,493	112,142,516	85,017,988	103,262,497	3,483.02	2,964.58	3,080.72	3,118.35	3,004.39	3,059.18	4	0.24	-608.48	760.53	-4.00	608.48	0.77
ACTIVITY	11,526	14,290	23,103	31,751	35,132	37,818													
DENSITY	42	54	83	114	115	115													
OPTEMPO	274.43	264.63	278.35	278.52	305.5	328.85													
CF	1,629.29	2,939.27	3,838.96	3,531.94	2,419.96	2,730.51													
OUTLIERS	STATIC 3	STATIC 3	STATIC 3	STATIC 3	STATIC 3	STATIC 3													
FC	2018	2019	2020	2021	2022	2023	OLD	3YR	4YR	5YR	PRED	PRED	LEN	CV_RMS E	MFE	RMS E	TS	MAE	MAE_RATIO
REP S		2,905,163	9,292,663	8,817,102	11,476,322	14,824,849		1,791.29	1,840.11	1,922.17	2,492.64	2,647.77	1	0.24	-86.20	511.26	-0.30	574.83	1.00
CON S		401,799	686,591	934,511	973,958	1,923,876					2,492.64	2,647.77	3	0.25	-332.55	617.49	-1.31	508.38	0.88
NAMI S		380,286	2,154,664	1,813,890	3,868,475	4,290,480					2,492.64	2,647.77	3	0.22	-218.83	511.71	-0.90	487.88	0.85
TOTAL S		3,687,248	12,133,918	11,545,503	16,318,755	21,107,805		2,495.46	2,529.84	2,628.16	2,492.64	2,647.77	3	0.25	-473.36	519.32	-2.00	473.36	0.82
ACTIVITY		481	4,530	4,101	7,558	7,946													
DENSITY		24	21	24	40	48													
OPTEMPO		20.04	215.71	170.88	188.95	165.54													
CF		7,618.5	2,678.57	2,820.17	2,159.14	2,647.77													
OUTLIERS		STATIC 3	STATIC 3	STATIC 3	STATIC 3	STATIC 3													
FC	2018	2019	2020	2021	2022	2023	OLD	3YR	4YR	5YR	PRED	PRED	LEN	CV_RMS E	MFE	RMS E	TS	MAE	MAE_RATIO
REP S	17,055,551		42,911,695	66,253,707	75,904,849	90,892,466		2,783.53	2,783.53	2,783.53									
CON S	2,018,691		1,847,435	3,073,635	6,189,152	7,012,481													
NAMI S	4,211,920		12,876,913	16,302,617	20,475,809	28,005,471		194.39	194.39	194.39									
TOTAL S	23,286,161		57,636,043	85,629,959	102,569,810	125,910,418		3,751.69	3,751.69	3,751.69									
ACTIVITY				8,456	37,395	37,874													
DENSITY				185	231	246													
OPTEMPO				45.71	161.88	153.96													
CF				10,126.53	2,742.87	3,324.46													
OUTLIERS				STATIC 3	STATIC 3	STATIC 3													
FC	2018	2019	2020	2021	2022	2023	OLD	3YR	4YR	5YR	PRED	PRED	LEN	CV_RMS E	MFE	RMS E	TS	MAE	MAE_RATIO
REP S	2,795,809		8,687,486	4,688,368	10,291,931	6,688,503		1,444.78	1,444.78	1,444.78									
CON S	260,611		278,249	303,069	500,906	492,524													
NAMI S	2,037,005		1,936,752	1,591,892	2,314,008	1,739,708		86.44	86.44	86.44									
TOTAL S	5,093,426		10,902,487	6,583,329	13,106,844	8,920,735		1,907.64	1,907.64	1,907.64									
ACTIVITY				3,920	4,758	6,320													
DENSITY				46	30	31													
OPTEMPO				85.22	158.6	203.87													
CF				1,679.42	2,754.7	1,411.51													
OUTLIERS				STATIC 3	STATIC 3	STATIC 3													

Historical Actuals

CF Options vs. Previous CF

Predictive Analytics

Demands = Cost of CLIX Parts (Cons, Reps, NAMI)

Activity = miles or hours

One Cost Factor for the AH-64E in Korea (USARPAC)



Demand CF Development Example

UH-60L Blackhawk

Historical Actuals

FC	2018	2019	2020	2021	2022	2023
REP \$	19,928,471	37,119,452	52,020,054	71,161,255	86,709,455	97,947,433
CON \$	2,279,699	1,115,593	2,125,630	3,376,673	6,690,426	7,504,952
NAMI \$	6,248,925	7,148,490	14,813,666	17,894,509	22,789,816	29,745,179
TOTAL \$	28,457,094	45,383,535	68,959,349	92,432,437	116,189,697	135,197,565
ACTIVITY	6,866	12,937	18,012	29,629	42,153	44,194
DENSITY	43	89	101	174	261	278
OPTEMPO	159.67	145.36	178.34	170.28	161.51	158.97
CF	4,144.64	3,508.04	3,828.52	3,119.66	2,756.38	3,059.18
OUTLIERS	STATIC: 5	STATIC: 5				

	OLD	3YR	4YR	5YR	PRED
REP \$	2,625.53	2,205.79	2,297.51	2,347.85	
CON \$	142.77	151.51	147.01	141.66	
NAMI \$	714.72	607.28	636.20	628.84	
TOTAL \$	3,483.02	2,964.58	3,080.72	3,118.35	3,004.39
% DIFFERENCE		-14.88	-11.55	-10.47	-13.74
LAST YEAR RULE 5 year drop 19 and 22 PUBLISHED X					

CF Options vs. Previous CF

	PRED	LEN	CV_RMSE	MFE	RMSE	TS	MAE	MAE_RATIO
NAIVE	3,059.18	1	0.34	-548.89	1,287.86	-4.64	946.74	1.00
SMA	3,080.72	4	0.22	-577.81	802.42	-5.75	703.80	0.74
WMA	3,004.39	4	0.19	-445.27	708.75	-5.06	616.21	0.65
EMA1	3,079.34	4	0.22	-568.41	790.24	-5.73	694.41	0.73
EMA2	3,308.24	4	0.26	-748.60	945.13	-5.99	874.60	0.92
PI LOW BOUND		PI UPPER BOUND		COVERAGE PROBABILITY				
2,756.38		9,497.12		0.83				

Predictive Analytics



- Three years of demands divided by three years end-strength.
 - Continue to use five years due to COVID impacts.
- Expressed as dollars per soldier by TDA/MTOE.
- CONOPS removed by project code.
- MACOM specific cost factors for USAREUR, EUSA, ARNG, & USAR.
- FORSCOM, USASOC, & TRADOC calculated at organization and installation level.
 - 13 installations modeled.
 - Does not include ROTC or TRADOC Central Initial Issue Points (CIIP).
- Calculated for cost categories:
 - Army Combat Fitness Testing, Mobility/Air Drop, NBC, OCIE, Religious Items, Training Aids, CLIV, & Other CLII.
 - Does not include demands being ordered by identified AMC Central Management Office (CMO) DODAACs and CMO-type NIINs.
 - Does not include items identified as BASOPS, i.e.:
 - Kitchen equipment used in a fixed dining facility
 - Barracks washers, dryers, and furniture
 - MWR support items





Class III Cost Factor Methodology



- *Ground Vehicles*

$(\text{Fuel Price} * \text{Fuel Usage}) * 1.02 = \text{POL Cost / Mile}$

Example: M1A2 ABRAMS

$(\$2.48 * 7.71) * 1.02 = \$ 19.50 / \text{Mile}$



- *Aircraft*

$((\text{Fuel Price} * \text{Fuel Usage}) + (\text{Oil Price} * \text{Oil Usage})) * 1.02 = \text{POL Cost / Hour}$

Example: AH-64D APACHE

$((\$2.48 * 124.59) + (\$12.21 * .38)) * 1.02 = \$319.89 / \text{Hour}$



DWCF Rates MEMO PB25 Fuel Price Updates 22 March 2024	
FUEL TYPE	FY 2019 PRICE
JP8 & JA1	\$3.63 / Gallon
Oil	\$18.43 / Quart

A 2% charge is applied to the cost factor to account for oil and / or miscellaneous lubricant costs (10% for Alaska).

A decorative graphic on the left side of the slide. It consists of four horizontal bars: a yellow bar at the top, a dark green bar, a white bar containing a faint world map, and a dark grey bar at the bottom. A diagonal line with a grey shadow effect runs from the top-left corner towards the bottom-right corner, partially overlapping the bars.

Cost Factor Talking Points



Unit Level Cost Factor Management Best Practices

Mileage Reporting:

- Recommend a responsible member of the unit *conducts a periodic check* (monthly or quarterly) of vehicle miles captured in GCSS-A to actual miles on the vehicle or system and make the appropriate corrections.

Work Orders:

- Map Purchase Orders to Work Orders as best as they can.

Demands Reporting:

- Attempt to *avoid buying parts from DLA using MIPRs* because it is problematic in that no audit trail is available to allocate or assign those cost to a weapon system.
- Major *changes in demand behavior are captured in future cost factors*; cost factors tend to have at least a two-year lag/lead time (e.g., in FY24, DASA-CE developed POM26 cost factors using FY23 and prior historical actuals).

Authorized vs Actual:

- Be aware of the impacts of *property 'in excess of' authorized*; as is not funded for class IX & class III and tends to dilute the weapons system cost factor.
- The more up to date the unit's property book is the better (in particular, your CLVII items). This data informs the denominator of a cost factor.



Unit Level Cost Factor Management Best Practices

Pricing:

- Recognize that *AMDF pricing can/does change* between the time the cost factor is estimated and the actual year of execution.
 - Forecasts are made and locked *at least 2 years ahead of the year of execution.*

Credit:

- Track all turn-in credits to leverage and maintain optimal OPTEMPO buying power. Cost factors utilize historical serviceable turn-ins by MACOM by source of supply to *estimate the percent of serviceable credit* and thus, unserviceable credit (i.e., 1 minus serviceable credit percentage) to include in the net of credit calculation.
- Monitor serviceable repair part turn-in and turn-in deferral quantities; it is an indication of improper troubleshooting.
- Track parts requested on an initial issue basis; units *won't receive turn-in credit.*
- Track turn-in credits deletions in GCSS-A; unit will never receive credit.



Unit Level Cost Factor Management Best Practices

Unmodeled Costs:

- Units possess some class VII type equipment that are not directly modeled in TRM; thus, no cost factor. In those cases, HQDA programs a *2% of ground equipment requirements* to capture these costs, called an "Equipment Scaling Factor".
- If/when a *unit sends equipment to an LRC for repairs*, attempt to use your paying/owning unit DoDAAC/account to purchase parts. Attempts to establish a formal process of utilizing the requesting and responsible cost centers tags in GCSS-A to allocate repair part costs back to the owning unit have yet to be developed in a functional manner.

Shop Stock:

- Track *shop stock inventory value over time*; increases in value will most likely reduce OPTEMPO buying power (i.e., buying the wrong stuff and/or changes in demand behaviors vs the cost factor distribution).
- Shop stock inventory variability behaviors are not well understood in our modeling forecasts; for example, if a unit has a *significant inventory deficit or hidden deferred maintenance liability* due to affordability, these demands are not transparent to HQDA.



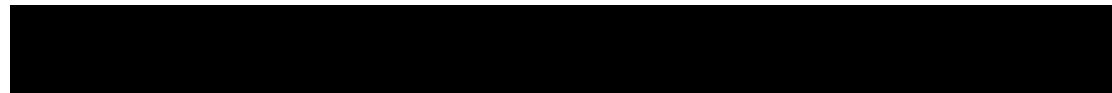
Unit Level Cost Factor Management Best Practices

References:

- Request and review the HQDA G-3/57 TT PEG *OPTEMPO Management Instructions* (OMI) each year as there are changes and updates in that document that you need to understand/know.
- Review *current DASA-CE cost factors* published at ASA FM&C (<https://www.asafm.army.mil/Cost-Materials/Cost-Models/#rates-guidance>) or in OSMIS (<https://www.cave.army.mil/>).
- The OSMIS cost model provides historical information about weapon system related cost factors. It includes things like class IX cost factors, class IX cost drivers, activity (hours or miles per), parts fit on, with MDS and command and installation level of detail.
- The FORCES model is a web-based cost model maintained by DASA-CE, that can estimate the unit-based O&S annual costs, exercises, transportation, and which may aid an analyst with forecasting exercise costs, force structure changes or annual spend plans (<https://www.cave.army.mil/>).



Army Equipment Service Optimization Update



CONTROLLED BY: The Department of the Army G4 (DALO-ZA)	
Controlled by: OFFICE SYMBOL	
Classification Level:	48
Control:	
POC: RANK Name	



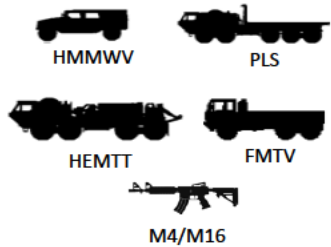
Army Equipment Service Optimization Program Update U.S. ARMY

Background: Following discussions with FORSCOM and other leaders across the Army, the VCSA tasked the G-4 and AMC to “Review maintenance service schedules and timelines across all fleets... to determine if we can modify our timelines to gain efficiency without sacrificing quality in our maintenance services.”

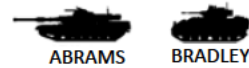
Problem Statement: Units dedicate precious resources (namely time) to time-based service intervals rather than servicing equipment as conditions require; ultimately, this limits maintainer time dedicated to troubleshooting, unscheduled maintenance, and other operational readiness-generating tasks.

Initiative Status:

30 NOV '23: Usage based intervals established Army-wide for 4 Families of Vehicles + M4/M16 rifles



15 DEC '23: Pilot approved to extend time-based intervals for Abrams and Bradley variants for Armor School



19 MAR '24: Usage based intervals established Army-wide for 4 additional Families of Vehicles



3 APR '24: USFORSCOM approved to implement extended time-based intervals for Abrams and Bradley variants



Today: Intervals for Power Generation Equipment and Night Vision Goggle Devices (Tactical Quiet Generators and Night Vision Goggle Devices PVS-7/PVS-14) under assessment



Way Ahead

- Coordinate Army-wide to nominate currently fielded platforms for assessment
- Provide commanders with better visibility of fleet usage in GCSS-Army
- Implement usage-based intervals for new equipment





Publication Revision Updates



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Controlled by: OFFICE SYMBOL	
Classification Level:	50
Control:	
POC: RANK Name	



FIELD MAINTENANCE DIVISION PUBLICATIONS



Publication	Title	Publication Date	Status	Comments
AR 700-4	Logistics Assistance Program	28 May 2023	No revision	Publication current
AR 700-132	Joint Oil Analysis Program	1 Mar 2024	No revision	Publication current
AR 700-139	Army Warranty Program	2 February 2015	Major Revision	Submitted for to APD staffing 18 Jun 24
AR 750-1	Army Materiel Maintenance Policy	2 March 2023	Major Revision	Submit to APD for Army wide Staffing Aug 2024
AR 750-10	Army Modification Program	23 October 2019	Major Revision	Submit to APD for Army wide Staffing Aug 2024 and transition to ASAALT
AR 750-43	Army Test, Measurement and Diagnostic Equipment	24 January 2014	Major Revision	Submitted for authentication. Estimated publication Jul 2024
AR 750-59	Corrosion Prevention and Control for Army Materiel	22 June 2020	Rescission	Contents of this publication already exist in ASAALT Policy AR 11-42
DA PAM 750-1	Commanders' Maintenance Handbook	2 Mar 2023	Major Revision	Submit to APD for Army wide Staffing Aug 2024
DA PAM 750-3	Soldiers' Guide for Field Maintenance Operations	11 April 2023	Rescission	Contents of this publication were found in doctrine and other policies.
DA PAM 750-43	Army Test Program Set Implementation Guide	24 January 2014	Major Revision	Submitted for authentication. Estimated publication Jul 2024
DA PAM 750-8	The Army Maintenance Management Systems (TAMMS) Users Manual	22 August 2005	Rescission	Publications contains forms that are now automated in GCSS-A